

SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING

[Affiliated to APJ Abdul Kalam Technological University, Kerala]
Kadayiruppu P O, Ernakulam, Kerala – 682 311

Sample PO Attainment Calculation

| Sl No | Name of the Department | Page No: |
|-------|--------------------------------|----------|
| 1 | Computer Science & Engineering | 2 |
| 2 | Civil Engineering | 19 |




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| Department of Computer Science and Engineering | | | | | | | | | | | | | | | | |
|--|---|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|-------|
| B. Tech in Computer Science & Engineering | | | | | | | | | | | | | | | | |
| CO PO Mapping | | | | | | | | | | | | | | | | |
| CSE 2019-2023 Batch | | | | | | | | | | | | | | | | |
| Semester | Course Code | CO No | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO1 1 | PO1 2 | PSO 1 | PSO 2 |
| S1 | MAT 101 LINEAR ALGEBRA AND CALCULUS | CO1 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| | | CO2 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| | | CO3 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| | | CO4 | 3 | 2 | 3 | 2 | 1 | 1 | | | 1 | 2 | | 2 | | |
| | | CO5 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| Average | | | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| S1 | PHT 100 ENGINEERING PHYSICS A | CO1 | 3 | 2 | | | | | | 1 | 2 | | | 1 | | |
| | | CO2 | 3 | 2 | | | | | | 1 | 2 | | | 1 | | |
| | | CO3 | 3 | 2 | | | | | | 1 | 2 | | | 1 | | |
| | | CO4 | 3 | 1 | | | | | | 1 | 2 | | | 1 | | |
| | | CO5 | 3 | 1 | | | | | | 1 | 2 | | | 1 | | |
| Average | | | 3 | 2 | | | | | 1 | 2 | | | 1 | | | |
| S1 | EST 100 ENGINEERING MECHANICS | CO1 | 2 | 2 | | | | | | | | | | | | |
| | | CO2 | 3 | 3 | | | | | | | | | | | | |
| | | CO3 | 3 | 3 | | | | | | | | | | | | |
| | | CO4 | 3 | 3 | | | | | | | | | | | | |
| | | CO5 | 3 | 3 | | | | | | | | | | | | |
| Average | | | 3 | 3 | | | | | | | | | | | | |
| S1 | EST 120 BASICS OF CIVIL & MECHANICAL ENGINEERING | CO1 | 3 | | | | | 3 | 2 | 2 | | | | | | |
| | | CO2 | 3 | 2 | | 1 | 3 | | | 3 | | | | | | |
| | | CO3 | 3 | 2 | | | 3 | | | | | 2 | | | | |
| | | CO4 | 3 | 2 | | | 3 | | | | | 2 | | | | |
| | | CO5 | 3 | 2 | | | 3 | 2 | 3 | | | 2 | | | | |
| | | CO6 | 3 | 2 | | | | | | | | | | | | |
| | | CO7 | 3 | 1 | | | | | | | | | | | | |
| | | CO8 | 3 | 1 | | | | | | | | | | | | |
| | | CO9 | 3 | 2 | | | | | | | | | | | | |
| | | CO10 | 3 | 1 | | | | | | | | | | | | |

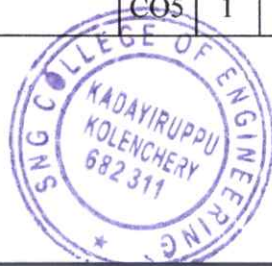



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|----------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|--|--|
| | | CO1 1 | 3 | | | | | | | | | | | | | | |
| Average | | | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 1 | 2 | 2 | | 2 | | | |
| S1 | HUN 101 LIFE SKILLS | CO1 | | | | | | 2 | | 1 | 2 | 2 | 1 | 3 | | | |
| | | CO2 | | | | | | | | | 3 | | | 2 | | | |
| | | CO3 | | | | | | 1 | | | 1 | 3 | | | | | |
| | | CO4 | | | | | | | | | | 3 | | 1 | | | |
| | | CO5 | | 3 | 2 | 1 | | | | | | | | | | | |
| | | CO6 | | | | | | 1 | | | | 3 | | | | | |
| Average | | | | 3 | 2 | 1 | | 1 | | 1 | 2 | 3 | 1 | 2 | | | |
| S1 | PHL 120 ENGINEERING PHYSICS LAB | CO1 | 3 | | | | 3 | | | 1 | 2 | | | 1 | | | |
| | | CO2 | 3 | | | | 3 | | | 1 | 2 | | | 1 | | | |
| | | CO3 | 3 | | | | 3 | | | 1 | 2 | | | 1 | | | |
| | | CO4 | 3 | | | | 3 | | | 1 | 2 | | | 1 | | | |
| | | CO5 | 3 | | | | 3 | | | 1 | 2 | | | 1 | | | |
| Average | | | 3 | | | 3 | | | 1 | 2 | | | 1 | | | | |
| S1 | ESL 120 CIVIL & MECHANICAL WORKSHOP | CO1 | 1 | | | | 1 | 1 | | | 2 | 2 | | | | | |
| | | CO2 | 1 | | | | 1 | 1 | | | 2 | 2 | | | | | |
| | | CO3 | 1 | | | | 1 | 1 | | 2 | 2 | 2 | 1 | | | | |
| | | CO4 | 1 | | | | 1 | 1 | | 2 | 2 | 2 | 1 | 1 | | | |
| | | CO5 | 1 | | | | 1 | 1 | | | 2 | 2 | | 1 | | | |
| | | CO6 | 2 | | | | | | | | | | | | | | |
| | | CO7 | 2 | | | | | | | | | | | | | | |
| | | CO8 | 2 | | | | | | | | | | | | | | |
| Average | | | 1 | | | 1 | 1 | | | 2 | 2 | 2 | 1 | 1 | | | |
| S2 | MAT 102 VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS | CO1 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | | |
| | | CO2 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | | |
| | | CO3 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | | |
| | | CO4 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | | |
| | | CO5 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | | |
| Average | | | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | | |
| S2 | CYT 100 ENGINEERING CHEMISTRY | CO1 | 1 | 2 | 1 | | | | | | | | | | | | |
| | | CO2 | 1 | 1 | | 1 | 2 | | | | | | | | | | |
| | | CO3 | 1 | 1 | | 1 | 2 | | | | | | | | 2 | | |
| | | CO4 | 2 | 1 | | | | | | | | | | | | | |
| | | CO5 | 1 | | | 1 | | | | 3 | | | | | | | |

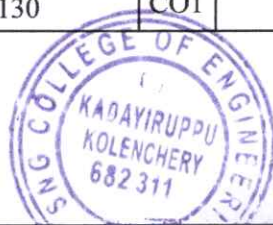


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| Average | | | 1 | 1 | 1 | 1 | 2 | | 3 | | | | 2 | | |
|---------|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S2 | EST 110 ENGINEERING GRAPHICS | CO1 | 3 | | | | | | | | | | | | |
| | | CO2 | 3 | | | | | | | | | | | | |
| | | CO3 | 3 | 1 | | | | | | | | | | | |
| | | CO4 | 3 | | | | | | | | | 1 | | | |
| | | CO5 | 3 | | | | | | | | | 2 | | | |
| | | CO6 | 3 | | | | | 3 | | | | 3 | | | |
| Average | | | 3 | 1 | | | 3 | | | | | | 2 | | |
| S2 | EST 130 BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING | CO1 | 3 | 1 | - | - | - | - | - | - | - | - | - | 2 | |
| | | CO2 | 3 | 1 | | | | | | | | | | 2 | |
| | | CO3 | 3 | 1 | | | | | | | | | | 2 | |
| | | CO4 | 2 | | | | | | | | | | | | |
| | | CO5 | 2 | | | | | | | | | | | 2 | |
| | | CO6 | 2 | | | | | | | | | | | 2 | |
| Average | | | 3 | 1 | | | | | | | | | 2 | | |
| S2 | HUN 102 PROFES SIONAL COMMUNICATION | CO1 | | | | | | | | | 3 | | 2 | | |
| | | CO2 | | | | | | | | | 1 | | 3 | | |
| | | CO3 | | | | | | 1 | | 1 | 3 | | | | |
| | | CO4 | | | | | | | | | 3 | | 1 | | |
| | | CO5 | | 1 | | | | | | 2 | 3 | | | | |
| | | CO6 | 1 | | | | | 1 | | 1 | 3 | | | | |
| Average | | | 1 | 1 | | | 1 | | 1 | 3 | | | 2 | | |
| S2 | EST 102 PROGRAMMING IN C | CO1 | 2 | 3 | 3 | 2 | | | | | | | 3 | 3 | 3 |
| | | CO2 | 2 | 3 | 3 | 2 | | | | | | | 2 | 3 | 2 |
| | | CO3 | 2 | 3 | 3 | 1 | | | | | | | 2 | 3 | 2 |
| | | CO4 | 2 | 2 | 2 | 1 | | | | | | | 2 | 3 | 2 |
| | | CO5 | 3 | 2 | 2 | 2 | | | | | | | 2 | 3 | 1 |
| | | CO6 | 3 | 2 | 2 | 2 | | | | | | | 3 | 3 | 2 |
| Average | | | 2 | 3 | 3 | 2 | | | | | | 2 | 3 | 2 | |
| S2 | CYL 120 ENGINEERING CHEMISTRY LAB | CO1 | 3 | | | | 2 | | | | | | 3 | | |
| | | CO2 | 3 | | | | 3 | | | | | | 3 | | |
| | | CO3 | 3 | | | | 3 | | | | | | 3 | | |
| | | CO4 | 3 | | | | 3 | | | | | | 3 | | |
| | | CO5 | 3 | | | | 1 | | | | | | 3 | | |
| | | CO6 | 3 | | | | 1 | | | | | | 3 | | |
| Average | | | 3 | | | 2 | | | | | | 3 | | | |
| S2 | ESL 130 | CO1 | | | | | 3 | | | | | | 1 | | |

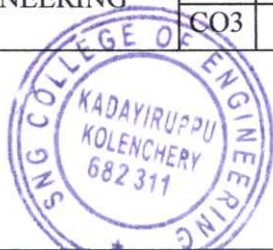



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|----|--|----------------|---|----------|----------|----------|----------|----------|----------|---|----------|----------|----------|----------|----------|----------|
| | ELECTRICAL ELECTRONICS WORKSHOP | CO2 | 2 | | | | | | | | 1 | | | | | |
| | | CO3 | 2 | | | 1 | | 1 | | 1 | 2 | 2 | | 2 | | |
| | | CO4 | 3 | | | | | | | | | | | 2 | | |
| | | CO5 | 3 | | | | | | | | | | | 2 | | |
| | | CO6 | 3 | | | | 2 | | | | | | | 1 | | |
| | | CO7 | | | | | 2 | | | | 3 | 2 | | 2 | | |
| | | Average | | 3 | | | 1 | 2 | 1 | | 1 | 3 | 2 | | 2 | |
| S3 | CST201-DATA STRUCTURES | CO1 | 3 | 3 | 2 | 2 | | 1 | | | | | 2 | | | |
| | | CO2 | 2 | 2 | 3 | 2 | | 1 | | | | | 1 | 2 | 2 | |
| | | CO3 | 3 | 2 | 3 | 2 | | 2 | | | | | 1 | | | |
| | | CO4 | 3 | 1 | 2 | 3 | | 1 | | | | | 2 | | | |
| | | CO5 | 3 | 2 | 3 | 3 | | 1 | | | | | 2 | | | |
| | | CO6 | 3 | 2 | 3 | 2 | | 2 | | | | | 2 | 2 | 2 | |
| | | Average | | 3 | 2 | 3 | 2 | | 1 | | | | | 2 | 2 | 2 |
| S3 | CST203-LOGIC SYSTEM DESIGN | CO1 | 1 | 2 | | | | | | | | | 2 | 2 | | |
| | | CO2 | 1 | 2 | 1 | 2 | | 1 | | | | | 2 | 2 | | |
| | | CO3 | 2 | 2 | 3 | 2 | | 1 | | | | | 2 | 2 | | |
| | | CO4 | 2 | 2 | 2 | 1 | | 1 | | | | | 2 | 2 | | |
| | | CO5 | 1 | 2 | 2 | | | | | | | | 2 | 2 | | |
| | | | 1 | 2 | 2 | 2 | | 1 | | | | | 2 | 2 | | |
| | | Average | | | 2 | 2 | 2 | | 1 | | | | | 2 | 2 | |
| S3 | CST205-OBJECT ORIENTED PROGRAMMING USING JAVA | CO1 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | 2 | 2 | 2 | |
| | | CO2 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | 2 | 2 | 2 | |
| | | CO3 | 2 | 2 | 2 | 2 | - | - | - | - | - | 2 | - | 2 | 2 | 2 |
| | | CO4 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | 2 |
| | | CO5 | 2 | 2 | 2 | 2 | - | - | - | - | - | - | - | 2 | 2 | 2 |
| | | Average | | 2 | 2 | 2 | 2 | | | | | | 2 | | 2 | 2 |
| S3 | MAT203-DISCRETE MATHEMATICAL STRUCTURES | CO1 | 3 | 3 | 3 | 3 | | | | | | | 1 | | | |
| | | CO2 | 1 | 3 | 3 | 2 | | | | | | | 2 | | | |
| | | CO3 | 3 | 2 | 2 | 2 | | 3 | | | | | 1 | | | |
| | | CO4 | 2 | 2 | 3 | 2 | | 1 | | | | | 2 | | | |
| | | CO5 | 2 | 2 | 3 | 3 | | | | | | | 2 | | | |
| | | CO6 | 3 | 2 | 1 | 3 | | | | | | | 2 | | | |
| | | Average | | 2 | 2 | 3 | 3 | | 2 | | | | | 2 | | |
| S3 | MCN201- SUSTAINABLE ENGINEERING | CO1 | | | | | | 2 | 3 | | | | 2 | | | |
| | | CO2 | | | | | | 2 | 3 | | | | 2 | | | |
| | | CO3 | | | | | | 2 | 3 | | | | 2 | | | |



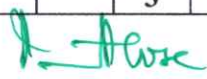

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|----------------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO4 | | | | | | 2 | 3 | | | | | 2 | | |
| | | CO5 | | | | | | 2 | 3 | | | | | 2 | | |
| Average | | | | | | | | 2 | 3 | | | | | 2 | | |
| S3 | HUT200- PROFESSIONAL ETHICS | CO1 | 2 | | | | | | | | | | | 2 | | |
| | | CO2 | 1 | | | | | | | | | | | 2 | | |
| | | CO3 | 2 | | 2 | | | | | | | | | 2 | | |
| | | CO4 | 1 | 2 | | 1 | | | | | | | | 2 | | |
| | | CO5 | 2 | 2 | | | 1 | 1 | | | | | | 2 | | |
| Average | | | 2 | 2 | 2 | 1 | 1 | 1 | | | | | 2 | | | |
| S3 | CSL201-DATA STRUCTURES LAB | CO1 | 3 | 3 | 3 | 2 | | 1 | | 1 | | 2 | | 2 | 2 | 2 |
| | | CO2 | 3 | 3 | 3 | 2 | | | | | 1 | | 1 | | 1 | 1 |
| | | CO3 | 3 | 3 | 3 | 1 | | | | | 1 | | 1 | | 1 | 2 |
| | | CO4 | 3 | 3 | 2 | 1 | | | | | 1 | | 1 | | 1 | 1 |
| | | CO5 | 2 | 1 | 1 | | | | | | 1 | | 1 | | 1 | |
| | | CO6 | 2 | 1 | 1 | | | | | | 1 | | 1 | | 1 | |
| Average | | | 3 | 2 | 2 | 2 | | 1 | | 1 | | 1 | | 1 | 2 | 2 |
| S3 | CSL203-OBJECT ORIENTED PROGRAMMING LAB (IN JAVA) | CO1 | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| | | CO2 | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| | | CO3 | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| | | CO4 | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| | | CO5 | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| Average | | | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| S4 | MAT 206 GRAPH THEORY | CO1 | 1 | 1 | 2 | 2 | | | | | | | | 3 | | |
| | | CO2 | 1 | 2 | 3 | 2 | | | | | | | | 2 | | |
| | | CO3 | 2 | 2 | 3 | 1 | | | | | | | | 2 | | |
| | | CO4 | 1 | 2 | 2 | 1 | | | | | | | | 2 | | |
| | | CO5 | 3 | 2 | 2 | 3 | | | | | | | | 2 | | |
| | | CO6 | 3 | 1 | 1 | 1 | | | | | | | | 3 | | |
| Average | | | 2 | 2 | 2 | 2 | | | | | | | 2 | | | |
| S4 | CST 202 COMPUT ER ORGANISATIO N AND ARCHITECTURE | CO1 | 2 | 1 | 2 | | | | | | | | | 3 | | 2 |
| | | CO2 | 1 | 2 | 3 | 2 | | | | | | | | 2 | | 2 |
| | | CO3 | 2 | 3 | 3 | 1 | | | | | | | | 2 | | 2 |
| | | CO4 | 3 | 2 | 2 | 1 | | | | | | | | 2 | | 2 |
| | | CO5 | 3 | 2 | 2 | 3 | | | | | | | | 2 | | |
| | | CO6 | 3 | 1 | 1 | 1 | | | | | | | | 3 | 1 | |
| Average | | | 2 | 2 | 2 | 2 | | | | | | | 2 | 1 | 2 | |
| S4 | CST 204 DATABASE | CO1 | 2 | 1 | 2 | | | | | | | | | 3 | | |





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|----|---|----------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LANGUAGES AND AUTOMATA THEORY | CO2 | 2 | 3 | 3 | 3 | | | | | | | | 2 | | 3 |
| | | CO3 | 3 | 3 | 3 | 2 | | | | | | | | 3 | 2 | |
| | | CO4 | 3 | 3 | 3 | 3 | | | | | | | | 3 | | 3 |
| | | CO5 | 2 | 2 | 2 | 2 | | | | | | | | 2 | | 2 |
| | | Average | | 2 | 3 | 3 | 3 | | | | | | | 2 | 2 | 3 |
| S5 | CST303 COMPUTER NETWORKS | CO1 | 3 | 2 | | | | | | | | | | 2 | | |
| | | CO2 | 2 | 2 | 1 | | | | | | | | | 2 | | |
| | | CO3 | 3 | 2 | 1 | | | | | | | | | 1 | | |
| | | CO4 | 2 | 1 | 2 | | | | | | | | | 2 | | |
| | | CO5 | 3 | 2 | 2 | 1 | | | | | | | | 2 | | |
| | | CO6 | 2 | 2 | 1 | | | 2 | | | | | | 2 | | |
| | Average | | 3 | 2 | 1 | 1 | | 2 | | | | | 2 | | | |
| S5 | CST 305 SYSTEM SOFTWARE | CO1 | 1 | 1 | | | 2 | | | | | | | 1 | | |
| | | CO2 | 1 | 2 | 3 | | | | | | | | | 1 | 2 | 2 |
| | | CO3 | 3 | 2 | 2 | 1 | | | | | | | | 1 | | |
| | | CO4 | 2 | 2 | 2 | | | | | | | | | 1 | | |
| | | CO5 | 2 | 3 | 3 | 1 | | | | | | | | 1 | | |
| | | CO6 | 2 | 2 | | | 2 | | | | | | | 1 | 2 | 2 |
| | Average | | 2 | 2 | 3 | 1 | 2 | | | | | | 1 | | | |
| S5 | CST 307 MICROPROCESSRS AND MICROCONTROLLE RS | CO1 | 3 | 1 | 1 | | | | | | | | | 3 | | |
| | | CO2 | 2 | 2 | 2 | 2 | | | | | | | | 1 | 2 | |
| | | CO3 | 3 | 2 | 2 | 2 | | | | | | | | 2 | | |
| | | CO4 | 2 | 2 | 2 | 2 | | | | | | | | 1 | | |
| | | CO5 | 2 | 2 | 2 | 2 | | | | | | | | 2 | | |
| | | | Average | | 2 | 2 | 2 | 2 | | | | | | | 2 | 2 |
| S5 | CST 309 MANAGEMENT OF SOFTWARE SYSTEMS | CO1 | 1 | 2 | 1 | 1 | | 1 | | | | | | 1 | | |
| | | CO2 | 1 | 1 | 3 | 1 | | 1 | | | 1 | 1 | | 1 | | |
| | | CO3 | 1 | 2 | 1 | 1 | | | 2 | | | 1 | 1 | | | |
| | | CO4 | 1 | 1 | 1 | 2 | | 2 | | | 1 | 1 | 1 | 1 | | |
| | | CO5 | 1 | 1 | 2 | 1 | | 1 | | | | | | 3 | | |
| | | CO6 | | | | | | | | | | | | | | |
| | Average | | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | | | |
| S5 | MCN 301 DISASTER MANAGEMENT | CO1 | | 2 | | | | 2 | | | | | 2 | 2 | | |
| | | CO2 | 2 | 3 | 2 | | 2 | 2 | 3 | | | | 3 | 2 | | |
| | | CO3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | | | | 3 | 2 | | |
| | | CO4 | 3 | 3 | 3 | | 2 | 2 | 3 | | | | | 2 | | |
| | | CO5 | 3 | 3 | | | 2 | 2 | 3 | | | | | 2 | | |
| | | CO6 | 3 | | | | | 2 | 3 | 3 | | | | 2 | | |
| | Average | | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | | | 2 | | | |
| S5 | CSL 331 SYSTEM SOFTWARE AND MICROPROCESSORS LAB | CO1 | 1 | 1 | 2 | | | | | | | | | 2 | | 2 |
| | | CO2 | 2 | 2 | 2 | | | | | | | | | 2 | | 2 |
| | | CO3 | 1 | 2 | 2 | | | | | | | | | 2 | | 2 |
| | | CO4 | 1 | 2 | 2 | | | | | | | | | 1 | | 2 |
| | | CO5 | 1 | 2 | 2 | | | | | | | | | 2 | | 2 |
| | Average | | 1 | 2 | 2 | | | | | | | | 2 | | 2 | |
| S5 | CONCEPTS IN | CO1 | 3 | 2 | 2 | 2 | | 2 | | | | | | 1 | | |



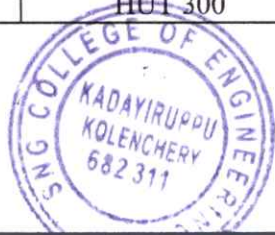

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|---------|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SOFTWARE ENGINEERING(Minor) | CO2 | 3 | 2 | 2 | 2 | | 2 | | | 2 | 2 | 1 | | | |
| | | CO3 | 3 | 2 | 2 | 2 | | | 2 | | 2 | 2 | 1 | | | |
| | | CO4 | 3 | 2 | 2 | 2 | | 2 | | 2 | 2 | 2 | 1 | | | |
| | | CO5 | 3 | 2 | 2 | 2 | | 2 | | | | | 1 | | | |
| Average | | | | | | | | | | | | | | | | |
| S5 | CSL 333 DATABASE MANAGEMENT SYSTEMS LAB | CO1 | 2 | 2 | 2 | | 2 | | | | | | | | | |
| | | CO2 | 2 | 2 | 2 | | 2 | | | | | | | | | |
| | | CO3 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | |
| | | CO4 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | |
| | | CO5 | 2 | 2 | 2 | | 2 | | | | | | | | | |
| | | CO6 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| Average | | | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| S6 | CST 302 COMPILER DESIGN | CO1 | 2 | | 2 | | 3 | | | | | | 2 | | | |
| | | CO2 | 1 | 3 | 3 | | 3 | | | | | | | 1 | | |
| | | CO3 | | | 3 | | 3 | | | | | | | | | 3 |
| | | CO4 | 2 | 3 | 3 | 3 | | | | | | | | | | 3 |
| | | CO5 | 3 | 3 | 3 | | | | | | | | | | | 3 |
| Average | | | 2 | 3 | 3 | 3 | 3 | | | | | 2 | 1 | 3 | | |
| S6 | CST 304 COMPUTER GRAPHICS AND IMAGE PROCESSING | CO1 | 2 | | | | | | | | | | 2 | | | |
| | | CO2 | 2 | 2 | 2 | 2 | | | | | | | 2 | 2 | 2 | |
| | | CO3 | 2 | 2 | 2 | 2 | | | | | | | 2 | 2 | 2 | |
| | | CO4 | 2 | | 2 | | | | | | | | 2 | 2 | 2 | |
| | | CO5 | 2 | 2 | 2 | 2 | | | | | | | | | | |
| | | CO6 | 2 | 2 | 2 | 2 | | 2 | | | | | 2 | 2 | 2 | |
| Average | | | 2 | 2 | 2 | 2 | 2 | | | | | 2 | 2 | 2 | | |
| S6 | CST 306 ALGORITHM ANALYSIS AND DESIGN | CO1 | 2 | 2 | 1 | 1 | | | | | | | 1 | | 2 | |
| | | CO2 | 2 | 2 | 1 | 1 | | | | | | | 1 | | 2 | |
| | | CO3 | 3 | 1 | 1 | 1 | | | | | | | 2 | | 3 | |
| | | CO4 | 3 | 3 | 3 | 3 | | | | | | | 2 | 1 | 3 | |
| | | CO5 | 2 | 2 | | | | | | | | | | | | 2 |
| | | CO6 | 3 | 3 | 3 | 3 | | | | | | | 2 | | | 3 |
| Average | | | 3 | 2 | 2 | 2 | | | | | | 2 | 1 | 3 | | |
| S6 | PROGRAM ELECTIVE I CST 322 DATA ANALYTICS | CO1 | 3 | 3 | | | | | | | | | 3 | | | |
| | | CO2 | 3 | 3 | 3 | | | | | | | | 2 | | | |
| | | CO3 | 2 | 2 | 1 | | | | | | | | 2 | | | |
| | | CO4 | 2 | | | 1 | | | | | | | 1 | | | |
| | | CO5 | 2 | 1 | 2 | 1 | | | | | | | 1 | | | |
| | | CO6 | 3 | 2 | 3 | 3 | 3 | | | | | | | | | |
| Average | | | 3 | 2 | 2 | 2 | 3 | | | | | 2 | | | | |
| S6 | PROGRAM ELECTIVE I CST 322 FOUNDATIONS OF SECURITY IN COMPUTING | CO1 | 3 | 2 | 2 | 3 | | | | | | | | | | |
| | | CO2 | 3 | 1 | 2 | 2 | | | | | | | 1 | | | |
| | | CO3 | 3 | 1 | 2 | 2 | | | | | | | | | | |
| | | CO4 | 2 | | | | | 2 | 2 | | | | | | 2 | |
| | | CO5 | | | | | | 2 | 2 | | | | | | 2 | |
| Average | | | 3 | 1 | 2 | 2 | 2 | 2 | | | | | 1 | 2 | | |
| S6 | HUT 300 | CO1 | 2 | | | | | | | | | 3 | | | | |



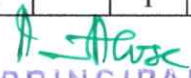

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| | | | | | | | | | | | | | | | | |
|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | INDUSTRIAL ECONOMICS & FOREIGN TRADE | CO2 | 2 | 2 | | | 2 | 2 | 3 | | | | 3 | | | |
| | | CO3 | 2 | 2 | 1 | | | | | | | | 3 | | | |
| | | CO4 | 2 | 2 | 1 | | | 1 | | | | | 3 | 2 | | |
| | | CO5 | 2 | 2 | 1 | | | | | | | | 3 | | | |
| | Average | | 2 | 2 | 1 | | 2 | 2 | 3 | | | | 3 | 2 | | |
| S6 | CST 308 COMPREHENSIVE COURSE WORK | CO1 | 2 | 2 | 2 | 2 | | | | | 1 | 1 | | | | |
| | | CO2 | 1 | 2 | 2 | 2 | | | | | | | | | | |
| | | CO3 | 1 | 2 | | | | | | | | | | | | |
| | | CO4 | 1 | 2 | 2 | | | | | | | | | | | |
| | | CO5 | | 2 | 2 | | | | | | | | | | | |
| | Average | | 1 | 2 | 2 | 2 | | | | | 1 | 1 | | | | |
| S6 | CSL 332 NETWORKING LAB | CO1 | 3 | 2 | 3 | | | | | 2 | 2 | | 3 | 3 | | |
| | | CO2 | 3 | 2 | 3 | 3 | | | | 2 | 2 | | 3 | 3 | | |
| | | CO3 | 3 | 2 | 3 | 3 | 3 | | | 2 | 2 | | 3 | 3 | | |
| | | CO4 | 3 | 2 | 3 | 3 | 3 | 3 | | 2 | 2 | | 3 | 3 | | |
| | | CO5 | 3 | 2 | 3 | 3 | 3 | | | 2 | 2 | | 3 | 3 | | |
| | Average | | 3 | 2 | 3 | 3 | 3 | 3 | | 2 | 2 | | 3 | 3 | | |
| S6 | CSD 334 MINIPROJECT | CO1 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 |
| | | CO2 | 3 | 3 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| | | CO3 | 3 | 3 | 3 | 1 | 3 | 2 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 3 |
| | | CO4 | 3 | 1 | 3 | 2 | | | | 2 | 2 | 2 | 1 | | | 2 |
| | | CO5 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | 3 | 2 | 2 | 3 |
| | Average | | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| S7 | CST 401 ARTIFICIAL INTELLIGENCE | CO1 | 3 | | | | | | | | | | | | | 2 |
| | | CO2 | 2 | 2 | | | | | | | | | | | 2 | |
| | | CO3 | 2 | 2 | 2 | 2 | | | | | | | | | 2 | |
| | | CO4 | 3 | 2 | 2 | 2 | | | | | | | | | 3 | |
| | | CO5 | 2 | 2 | | | 2 | | | | | | | | 2 | |
| | Average | | 2 | 2 | 2 | 2 | 2 | | | | | | | | 2 | |
| S7 | PROGRAM ELECTIVE II CST 433 SECURITY IN COMPUTING | CO1 | 2 | 2 | 1 | | | | | | | | | | 1 | |
| | | CO2 | 3 | 3 | 2 | | | | | | | | | | 1 | 2 |
| | | CO3 | 3 | 3 | 1 | | 2 | | | | | | | | 1 | |
| | | CO4 | 2 | 2 | 1 | | | 2 | | | | | | | 1 | 2 |
| | | CO5 | 2 | 2 | 1 | | | | | | | | | | 1 | |
| | | CO6 | 2 | 2 | 1 | | | 2 | | 2 | | | | | 1 | |
| | Average | | 2 | 2 | 1 | | 2 | 2 | | 2 | | | | | 1 | 2 |
| S7 | PROGRAM ELECTIVE II CST 423 CLOUD COMPUTING | CO1 | 3 | | | | | | | | | | | | 3 | |
| | | CO2 | 1 | 3 | 2 | | | | | | | | | | 2 | |
| | | CO3 | 2 | | | | | | | | | | | | 1 | |
| | | CO4 | 2 | 1 | 2 | 2 | 1 | | | | | | | | 1 | 1 |
| | | CO5 | 2 | 1 | | | | | | | | | | | 2 | 1 |
| | | CO6 | 1 | | | | 1 | | | | | | | | 3 | |
| | Average | | 2 | 2 | 2 | 2 | 1 | | | | | | | | 2 | 1 |
| S7 | MCN 401 INDUSTRIAL SAFETY | CO1 | 2 | 2 | | | | 2 | 2 | 2 | | | | | 1 | |
| | | CO2 | 2 | 1 | 2 | | 1 | 1 | 1 | 1 | | | | | 1 | |
| | | CO3 | 2 | 2 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | |
| | | CO4 | 2 | 2 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | |




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|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENGINEERING | CO5 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | Average | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| S7 | CSL 411 COMPILER LAB | CO1 | 2 | 2 | 2 | 2 | 3 | | | 2 | | 2 | | 3 | 2 | |
| | | CO2 | 2 | 2 | 2 | 2 | 3 | | | 2 | | 2 | | 3 | 2 | |
| | | CO3 | 3 | 2 | 2 | 2 | | | | 2 | | 2 | | 3 | 2 | |
| | | CO4 | 2 | 2 | 2 | 2 | | | | 2 | | 2 | | 3 | 2 | |
| | | CO5 | 2 | 2 | 2 | 2 | | | | 2 | | 2 | | 3 | 3 | 2 |
| | | CO6 | 2 | 2 | 2 | 2 | | | | 2 | | 2 | | 3 | | 2 |
| | Average | | 2 | 2 | 2 | 2 | 3 | | | 2 | | 2 | | 3 | 3 | 2 |
| S7 | CSQ 413 SEMINAR | CO1 | 2 | 2 | 1 | 1 | | 2 | 1 | | | | | 3 | 2 | 2 |
| | | CO2 | 3 | 3 | 2 | 3 | | 2 | 1 | | | | | 3 | 3 | 2 |
| | | CO3 | 3 | 2 | | | 3 | | | 1 | | 2 | | 3 | 3 | 3 |
| | | CO4 | 3 | | | | 3 | | | 1 | | 3 | | 3 | | 2 |
| | | CO5 | 3 | 2 | 3 | 3 | 2 | | | 2 | | 3 | | 3 | 2 | 3 |
| | | CO6 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | | 3 | | 3 | 3 | 2 |
| | Average | | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | | 3 | | 3 | 3 | 2 |
| S7 | CSD 415 PROJECT PHASE I | CO1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | | |
| | | CO2 | 2 | 2 | 1 | | | | | 3 | 2 | 2 | 1 | | | |
| | | CO3 | | | | | | | | 3 | 2 | 2 | 3 | 2 | | |
| | | CO4 | | | | | 2 | | | | | | | | | |
| | | CO5 | 2 | 3 | 3 | 1 | 2 | | | | | | | | | |
| | | CO6 | | | | | 2 | | | 2 | 2 | 2 | 2 | 1 | 1 | |
| | Average | | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | | |
| S8 | CST 402 DISTRIBUTED COMPUTING | CO1 | 3 | 3 | 2 | | | | | | | 2 | 2 | | | |
| | | CO2 | 2 | 2 | 2 | 2 | | | | | | 2 | | | | |
| | | CO3 | 2 | 2 | 2 | | | | | | | 2 | | | | |
| | | CO4 | 3 | 2 | 2 | | | | | | | 3 | | | | |
| | | CO5 | 2 | 2 | 2 | | | | | | | 2 | | | | |
| | | CO6 | 2 | 2 | 2 | | | | | | | 2 | 2 | 2 | | |
| | Average | | 2 | 2 | 2 | 2 | | | | | 2 | 2 | 2 | | | |
| S8 | PROGRAM ELECTIVE III CST 434 NETWORK SECURITY PROTOCOLS | CO1 | 3 | | 3 | | | | | | | | | 2 | | |
| | | CO2 | 3 | 3 | 3 | | | | | | | | | 2 | | |
| | | CO3 | 3 | 3 | 3 | | | | | | | | | 2 | | |
| | | CO4 | 3 | 3 | 3 | | | 3 | | | | | | 2 | | |
| | | CO5 | 3 | 3 | 3 | | | | | | | | | 2 | | |
| | | CO6 | 3 | 3 | 3 | | | | | | | | | 2 | | |
| | Average | | 3 | 3 | 3 | | | 3 | | | | | 2 | | | |
| S8 | PROGRAM ELECTIVE IV CST 466 DATA MINING | CO1 | 1 | 1 | | | | | | | | | | 1 | | |
| | | CO2 | 2 | 3 | 2 | 2 | 3 | | | | | | | 1 | | |
| | | CO3 | 2 | 3 | 2 | 2 | 3 | | | | | | | 1 | | |
| | | CO4 | 2 | 3 | 2 | 2 | 3 | | | | | | | 1 | | |
| | | CO5 | 1 | 2 | | | | | | | | | | | 1 | |
| | | CO6 | 2 | 2 | 2 | 2 | 3 | | | | | | | | 1 | |
| | Average | | 2 | 2 | 2 | 2 | 3 | | | | | | | 1 | | |
| S8 | PROGRAM ELECTIVE V INTERNET OF THINGS | CO1 | 1 | 1 | 1 | | | | | | | | | 1 | | |
| | | CO2 | 1 | 1 | 1 | | | | | | | | | 1 | | |
| | | CO3 | 1 | 1 | 1 | | | | | | | | | 1 | | |
| | | CO4 | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | | |



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|----------------|-----------------------------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|
| | | CO5 | 1 | 1 | 1 | | 1 | | | | | | 1 | | | |
| | | CO6 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| Average | | | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| S8 | CSD 416 PROJECT PHASE II | CO1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | | |
| | | CO2 | 2 | 2 | 2 | | 1 | 3 | 3 | 1 | 1 | | 1 | 1 | | |
| | | CO3 | | | | | | | | | | 2 | 2 | 1 | | |
| | | CO4 | | | | | 1 | | | 3 | 3 | 2 | 3 | 2 | | |
| | | CO5 | | | | | | | | 2 | 2 | | | 1 | | |
| | | CO6 | 2 | 3 | 3 | 1 | 1 | | | 1 | 2 | 3 | 1 | 1 | | |
| Average | | | 2 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | | |

CO PO Mapping

CSE 2019-2023 Batch


SEMESTER 1

| Subject | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| MAT 101 LINEAR ALGEBRA AND CALCULUS | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| PHT 100 ENGINEERING PHYSICS A | 3 | 2 | | | | | | 1 | 2 | | | 1 | | |
| EST 100 ENGINEERING MECHANICS | 3 | 3 | | | | | | | | | | | | |
| EST 120 BASICS OF CIVIL & MECHANICAL ENGINEERING | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 1 | 2 | 2 | | 2 | | |
| HUN 101 LIFE SKILLS | | 3 | 2 | 1 | | 1 | | 1 | 2 | 3 | 1 | 2 | | |
| PHL 120 ENGINEERING PHYSICS LAB | 3 | | | | 3 | | | 1 | 2 | | | 1 | | |
| ESL 120 CIVIL & MECHANICAL WORKSHOP | 1 | | | | 1 | 1 | | 2 | 2 | 2 | 1 | 1 | | |

SEMESTER 2

| | | | | | | | | | | | | | | |
|---|----------|---|---|----------|----------|----------|---|----------|----------|----------|--|----------|---|---|
| MAT 102 VECTOR CALCULUS , DIFFERENTIAL EQUATIONS AND TRANSFORMS | 2 | 3 | 3 | 2 | 2 | 1 | | | 2 | 2 | | 1 | | |
| CYT 100 ENGINEERING CHEMISTRY | 1 | 1 | 1 | 1 | 2 | | 3 | | | | | 2 | | |
| EST 110 ENGINEERING GRAPHICS | 3 | 1 | | | 3 | | | | | 2 | | | | |
| EST 130 BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING | 3 | 1 | | | | | | | | | | 2 | | |
| HUN 102 PROFESSIONAL COMMUNICATION | 1 | 1 | | | | 1 | | | 1 | 3 | | 2 | | |
| EST 102 PROGRAMMING IN C | 2 | 3 | 3 | 2 | | | | | | | | 2 | 3 | 2 |
| CYL 120 ENGINEERING CHEMISTRY LAB | 3 | | | | 2 | | | | | | | 3 | | |
| ESL 130 ELECTRICAL ELECTRONICS WORKSHOP | 3 | | | 1 | 2 | 1 | | 1 | 3 | 2 | | 2 | | |





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| SEMESTER 3 | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CST201-DATA STRUCTURES | 3 | 2 | 3 | 2 | | 1 | | | | | | 2 | 2 | 2 |
| CST203-LOGIC SYSTEM DESIGN | 2 | 2 | 2 | | 1 | | | | | 2 | | 2 | 2 | |
| CST205-OBJECT ORIENTED PROGRAMMING USING JAVA | 2 | 2 | 2 | 1 | 3 | | | | | | | | | |
| MAT203-DISCRETE MATHEMATICAL STRUCTURES | 2 | 2 | 3 | 3 | | 2 | | | | | | 2 | | |
| MCN201-SUSTAINABLE ENGINEERING | 2 | 3 | | | | | 2 | | | | | | | |
| HUT200-PROFESSIONAL ETHICS | 2 | 2 | 2 | 1 | 1 | 1 | | 2 | | | | 2 | | |
| CSL201-DATA STRUCTURES LAB | 3 | 2 | 2 | 2 | | 1 | | 1 | | 1 | | 1 | 2 | 2 |
| CSL203-OBJECT ORIENTED PROGRAMMING LAB (IN JAVA) | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 2 | | |
| SEMESTER 4 | | | | | | | | | | | | | | |
| MAT 206 GRAPH THEORY | 2 | 2 | 2 | 2 | | | | | | | | 2 | | |
| CST 202 COMPUTER ORGANISATION AND ARCHITECTURE | 2 | 2 | 2 | 1 | 3 | | | | | | | | | |
| CST 204 DATABASE MANAGEMENT SYSTEMS | 2 | 2 | 2 | 2 | 2 | | | | | 1 | | 2 | | |
| CST 206 OPERATING SYSTEMS | 3 | 2 | 2 | 2 | | | | | | 2 | | 2 | | |
| EST 200 DESIGN & ENGINEERING | 2 | 2 | 2 | | | 1 | 1 | 1 | 2 | 2 | | 2 | | |
| MCN 202 CONSTITUTION OF INDIA | | | | | | 3 | 2 | 3 | | 3 | | 2 | | |
| CSL 202 DIGITAL LAB | 3 | 2 | 2 | 3 | 3 | | | | 3 | 1 | | 3 | | |
| CSL204 OPERATING SYSTEMS LAB | 2 | 2 | 2 | 2 | | | | | | | | | 1 | 2 |
| SEMESTER 5 | | | | | | | | | | | | | | |
| CST301 FORMAL LANGUAGES AND AUTOMATA THEORY | 2 | 3 | 3 | 3 | | | | | | | | 2 | 2 | 3 |
| CST303 COMPUTER NETWORKS | 3 | 2 | 1 | 1 | | 2 | | | | | | 2 | | |
| CST 305 SYSTEM SOFTWARE | 2 | 3 | 3 | 2 | 3 | 3 | 2 | | 1 | 1 | | 2 | | |
| CST 307 MICROPROCESSORS AND MICROCONTROLLERS | 2 | 2 | 2 | 2 | | | | | | | | 2 | 2 | |
| CST 309 MANAGEMENT OF SOFTWARE SYSTEMS | 1 | 1 | 2 | 1 | | 1 | | 2 | 1 | 1 | 1 | 2 | | |
| MCN 301 DISASTER MANAGEMENT | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | | | | 2 | | |
| CSL 331 SYSTEM SOFTWARE AND MICROPROCESSORS LAB | 1 | 2 | 2 | | | | | | | | | 2 | | 2 |
| CSL 333 DATABASE MANAGEMENT SYSTEMS LAB | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| SEMESTER 6 | | | | | | | | | | | | | | |
| CST 302 COMPILER DESIGN | 2 | 3 | 3 | 3 | 3 | | | | | | | 2 | 1 | 3 |
| CST 304 COMPUTER GRAPHICS AND IMAGE PROCESSING | 2 | 2 | 2 | 2 | | 2 | | | | | | 2 | 2 | 2 |
| CST 306 ALGORITHM | 2 | 2 | 2 | 2 | | | | | | | | 2 | 2 | 2 |




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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYSIS AND DESIGN | | | | | | | | | | | | | | |
| PROGRAM ELECTIVE I CST 322 DATA ANALYTICS | 2 | 2 | 2 | 2 | 3 | | | | | | | 2 | | |
| PROGRAM ELECTIVE I CST 322 FOUNDATIONS OF SECURITY IN COMPUTING | 2 | 2 | 2 | 2 | | 2 | | | | | | 2 | 2 | |
| HUT 300 INDUSTRIAL ECONOMICS & FOREIGN TRADE | 2 | 2 | 1 | | 2 | 2 | 3 | | | | 3 | 2 | | |
| CST 308 COMPREHENSIVE COURSE WORK | 1 | 2 | 2 | 2 | | | | | | 1 | 1 | | | |
| CSL 332 NETWORKING LAB | 3 | 2 | 3 | 3 | 3 | 3 | | 2 | | 2 | | 3 | | |
| CSD 334 MINIPROJECT | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| SEMESTER 7 | | | | | | | | | | | | | | |
| CST 401 ARTIFICIAL INTELLIGENCE | 2 | 2 | 2 | 2 | 2 | | | | | | | 2 | | |
| PROGRAM ELECTIVE II CST 433 SECURITY IN COMPUTING | 2 | 2 | 1 | | 2 | 2 | | 2 | | | | 1 | 2 | 1 |
| PROGRAM ELECTIVE II CST 423 CLOUD COMPUTING | 2 | 2 | 2 | 2 | 1 | | | | | | | 2 | | 1 |
| MCN 401 INDUSTRIAL SAFETY ENGINEERING | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | |
| CSL 411 COMPILER LAB | 2 | 2 | 2 | 2 | 3 | | | 2 | | 2 | | 3 | 3 | 2 |
| CSQ 413 SEMINAR | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | 2 | | 2 | 2 | 1 |
| CSD 415 PROJECT PHASE I | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | | |
| SEMESTER 8 | | | | | | | | | | | | | | |
| CST 402 DISTRIBUTED COMPUTING | 2 | 2 | 2 | 2 | | | | | | | 2 | 2 | 2 | |
| PROGRAM ELECTIVE III CST 434 NETWORK SECURITY PROTOCOLS | 3 | 3 | 3 | | | 3 | | | | | | 2 | | |
| PROGRAM ELECTIVE IV CST 466 DATA MINING | 2 | 2 | 2 | 2 | 3 | | | | | | | 1 | | |
| PROGRAM ELECTIVE V INTERNET OF THINGS | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | | |
| CSD 416 PROJECT PHASE II | 2 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | | |

| PO Attainment Calculation | | | | | | | | | | | | | | | | |
|---------------------------|-------------------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CSE 2019-2023 Batch | | | | | | | | | | | | | | | | |
| Semester | Subject | CO Attainment Value | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| S1 | MAT 101 LINEAR ALGEBRA AND CALCULUS | 2.8 | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | | |
| | PHT 100 ENGINEERING | 2.60 | 3 | 1 | | | | | | 1 | 2 | | | 1 | | |

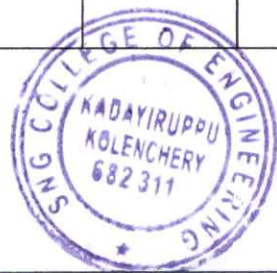




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|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | PHYSICS A | | | | | | | | | | | | | | | | | |
| | EST 100 ENGINEERING MECHANICS | 2.6 | 2 | 2 | | | | | | | | | | | | | | |
| | EST 120 BASICS OF CIVIL & MECHANICAL ENGINEERING | 2.6 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | | | 1 | | | |
| | HUN 101 LIFE SKILLS | 1.0 | | 1 | 1 | 0 | | 0 | | 0 | 1 | 1 | 0 | 1 | | | | |
| | PHL 120 ENGINEERING PHYSICS LAB | 2.0 | 2 | | | | 2 | | | | 1 | | | | | | | |
| | ESL 120 CIVIL & MECHANICAL WORKSHOP | 1.0 | 0 | | | | 0 | 0 | | 1 | 1 | 1 | 0 | 0 | | | | |
| S2 | MAT 102 VECTOR CALCULUS , DIFFERENTIAL EQUATIONS AND TRANSFORMS | 1.8 | 1 | 2 | 2 | 1 | 1 | 1 | | | 1 | 1 | | | 1 | | | |
| | CYT 100 ENGINEERING CHEMISTRY | 2.0 | 1 | 1 | 1 | 1 | 1 | | 2 | | | | | | 1 | | | |
| | EST 110 ENGINEERING GRAPHICS | 2.6 | 3 | 1 | | | 3 | | | | | 2 | | | | | | |
| | EST 130 BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING | 2.6 | 2 | 1 | | | | | | | | | | | 2 | | | |
| | HUN 102 P R O F E S S I O N A L COMMUNICATION | 2.0 | 1 | 1 | | | | 1 | | | 1 | 2 | | | 1 | | | |
| | EST 102 PROGRAMMING IN C | 2.8 | 2 | 2 | 2 | 2 | | | | | 0 | 0 | | | 2 | 3 | 2 | |
| | CYL 120 ENGINEERING CHEMISTRY LAB | 3.0 | 3 | | | | 2 | | | | 0 | 0 | | | 3 | | | |
| | ESL 130 ELECTRICAL ELECTRONICS WORKSHOP | 3.0 | 3 | | | 1 | 2 | 1 | | 1 | 3 | 2 | | | 2 | | | |
| S3 | CST201-DATA STRUCTURES | 2.0 | 2 | 1 | 2 | 2 | | 1 | | | | | | | 1 | 1 | 1 | |
| | CST203-LOGIC SYSTEM DESIGN | 2.0 | 1 | 1 | 1 | 0 | | 0 | | | | | | | 1 | | | |
| | CST205-OBJECT ORIENTED PROGRAMMING | 2.0 | 1 | 1 | 2 | 1 | 2 | | | | | | | | | | | |



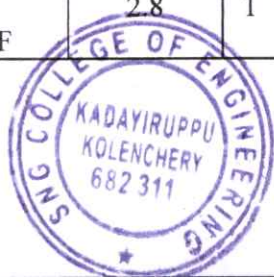

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|----|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | USING JAVA | | | | | | | | | | | | | | | | | |
| | MAT203-DISCRETE MATHEMATICAL STRUCTURES | 2.2 | 2 | 2 | 2 | 2 | | 1 | | | | | | | | 1 | | |
| | MCN201-SUSTAINABLE ENGINEERING | 2.0 | 1 | 2 | | | | | 1 | | | | | | | | | |
| | HUT200-PROFESSIONAL ETHICS | 3.0 | 2 | 2 | 2 | 1 | 1 | 1 | | 2 | | | | | | 2 | | |
| | CSL201-DATA STRUCTURES LAB | 1.8 | 2 | 1 | 1 | 1 | | | | | | 1 | | | 1 | 1 | 1 | |
| | CSL203-OBJECT ORIENTED PROGRAMMING LAB (IN JAVA) | 2.0 | | 1 | 1 | 1 | 1 | | | | | 1 | | | 1 | | | |
| S4 | MAT 206 GRAPH THEORY | 2.0 | 1 | 1 | 1 | 1 | | | | | | | | | | 2 | | |
| | CST 202 COMPUTER ORGANISATION AND ARCHITECTURE | 2.6 | 2 | 1 | 2 | 1 | 3 | | | | | | | | | | | |
| | CST 204 DATABASE MANAGEMENT SYSTEMS | 1.8 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | 1 | | |
| | CST 206 OPERATING SYSTEMS | 2.6 | 3 | 2 | 2 | 2 | | | | | | 1 | | | | 2 | | |
| | EST 200 DESIGN & ENGINEERING | 2.2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | | |
| | MCN 202 CONSTITUTION OF INDIA | 2.0 | | | | | | 2 | 2 | 2 | | 2 | | | | 1 | | |
| | CSL 202 DIGITAL LAB | 1.2 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 0 | | | | 1 | | |
| | CSL204 OPERATING SYSTEMS LAB | 2.0 | 1 | 1 | 1 | 1 | | | | | | | | | | 0 | 1 | 1 |
| S5 | CST301 FORMAL LANGUAGES AND AUTOMATA THEORY | 2.4 | 2 | 2 | 2 | 2 | | | | | | | | | | 2 | 1 | 2 |
| | CST303 COMPUTER NETWORKS | 3.0 | 3 | 2 | 1 | 1 | | 2 | | | | | | | | 2 | | |
| | CST 305 SYSTEM SOFTWARE | 3.0 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 0 | 1 | 1 | | | | 2 | | |
| | CST 307 MICROPROCESSRS AND MICROCONTROLLERS | 1.8 | 1 | 1 | 1 | 1 | | | | | | | | | | 1 | | |
| | CST 309 MANAGEMENT OF | 2.8 | 1 | 1 | 1 | 1 | | 1 | | 2 | 1 | 1 | 1 | 1 | | 1 | | |



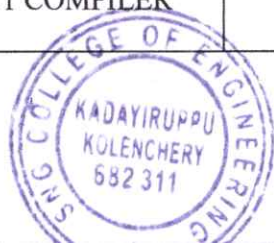

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| | | | | | | | | | | | | | | | | | | | | |
|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SOFTWARE SYSTEMS | | | | | | | | | | | | | | | | | | | |
| | MCN 301 DISASTER MANAGEMENT | 3.0 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | | | | | | | | 2 | | |
| | CSL 331 SYSTEM SOFTWARE AND MICROPROCESSORS LAB | 1.2 | 0 | 1 | 1 | | | | | | | | | | | | | 1 | 1 | |
| | CSL 333 DATABASE MANAGEMENT SYSTEMS LAB | 2.0 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | |
| S6 | CST 302 COMPILER DESIGN | 1.8 | 1 | 2 | 2 | 2 | 2 | | | | | | | | | | | 1 | 1 | 2 |
| | CST 304 COMPUTER GRAPHICS AND IMAGE PROCESSING | 2.6 | 2 | 2 | 2 | 2 | | 2 | | | | | | | | | | 2 | 2 | 2 |
| | CST 306 ALGORITHM ANALYSIS AND DESIGN | 2.8 | 2 | 2 | 2 | 2 | | | | | | | | | | | | 2 | 1 | 2 |
| | PROGRAM ELECTIVE I CST 322 DATA ANALYTICS | 2.4 | 1 | 2 | 2 | 2 | 2 | | | | | | | | | | | 2 | | |
| | PROGRAM ELECTIVE I CST 322 FOUNDATIONS OF SECURITY IN COMPUTING | 2.4 | 2 | 2 | 2 | 2 | | 2 | | | | | | | | | | 2 | 1 | |
| | HUT 300 INDUSTRIAL ECONOMICS & FOREIGN TRADE | 2.4 | 2 | 2 | 1 | | 2 | 1 | 2 | | | | | | | | | 2 | 2 | |
| | CST 308 COMPREHENSIVE COURSE WORK | 3.0 | 1 | 2 | 2 | 2 | | | | | | | 1 | 1 | | | | | | |
| | CSL 332 NETWORKING LAB | 2.6 | 3 | 2 | 3 | 3 | 3 | 3 | | 2 | | | 2 | 0 | 3 | | | | | |
| | CSD 334 MINIPROJECT | 1.2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| S7 | CST 401 ARTIFICIAL INTELLIGENCE | 2.6 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | 2 | | |
| | PROGRAM ELECTIVE II CST 433 SECURITY IN COMPUTING | 3.0 | 2 | 2 | 1 | 0 | 2 | 2 | | 2 | | | | | | | | 1 | 2 | 1 |
| | PROGRAM ELECTIVE II CST 423 CLOUD COMPUTING | 2.6 | 2 | 1 | 2 | 2 | 1 | | | | | | | | | | | 2 | | 1 |
| | MCN 401 INDUSTRIAL SAFETY ENGINEERING | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | | |
| | CSL 411 COMPILER LAB | 1.2 | 1 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | | | | | 1 | 1 | 1 |




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|---------------------|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CSQ 413 SEMINAR | 2.0 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| | CSD 415 PROJECT PHASE I | 2.0 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | | |
| S8 | CST 402 DISTRIBUTED COMPUTING | 2.6 | 2 | 2 | 2 | 2 | | | | | 2 | 2 | 2 | | | | |
| | PROGRAM ELECTIVE III CST 434 NETWORK SECURITY PROTOCOLS | 2.6 | 3 | 3 | 3 | | | 3 | | | | | | 2 | | | |
| | PROGRAM ELECTIVE IV CST 466 DATA MINING | 2.8 | 1 | 2 | 2 | 2 | 3 | | | | | | | 1 | | | |
| | PROGRAM ELECTIVE V INTERNET OF THINGS | 3.0 | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | | | |
| | CSD 416 PROJECT PHASE II | 3.0 | 2 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | | | |
| Average PO (Direct) | | | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| Indirect POs/PSOs Attainment of batch 19-23 | | | | | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Survey | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| Graduate Survey | 2.7 | 2.6 | 2.6 | 2.5 | 2.6 | 2.5 | 2 | 2 | 2.5 | 3 | 3 | 3 | 3 | 3 |
| Alumni Survey | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 |
| Employer Survey | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 2 |
| Indirect Attainment | 2.9 | 2.9 | 2.5 | 2.5 | 2.9 | 2.8 | 2.0 | 2.0 | 2.8 | 3.0 | 2.7 | 2.7 | 2.0 | 2.3 |
| PO Attainment((80% direct+ 20% indirect) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |

Target is set as 2. Remedial measures are planned to achieve the target.

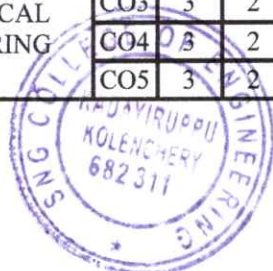



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| Department of Civil Engineering | | | | | | | | | | | | | | | | |
|---------------------------------|--|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| B. Tech in Civil Engineering | | | | | | | | | | | | | | | | |
| CO PO Mapping | | | | | | | | | | | | | | | | |
| CE 2019-2023 Batch | | | | | | | | | | | | | | | | |
| Semester | Course Code | CO No | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| S1 | MAT 101 LINEAR ALGEBRA AND CALCULUS | CO1 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO2 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO3 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO4 | 3 | 2 | 3 | 2 | 1 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO5 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| Average | | | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | 1 | |
| S1 | CYT 100 ENGINEERING CHEMISTRY | CO1 | 1 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | |
| | | CO2 | 1 | 1 | - | 1 | 2 | - | - | - | - | - | - | - | - | |
| | | CO3 | 1 | 1 | - | 1 | 2 | - | - | - | - | - | - | - | - | |
| | | CO4 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| | | CO5 | 1 | - | - | 1 | - | - | 3 | | | - | - | - | - | |
| Average | | | 2 | 2 | 1 | 1 | 2 | | 3 | | | | | | | |
| S1 | EST 110 ENGINEERING GRAPHICS | CO1 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO2 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO3 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO4 | 3 | - | - | - | - | - | - | - | - | 1 | - | - | 1 | |
| | | CO5 | 3 | - | - | - | - | - | - | - | - | 2 | - | - | 1 | |
| | | CO6 | 3 | - | - | - | 3 | - | - | - | - | 3 | - | - | 1 | |
| Average | | | 3 | 1 | | | 3 | | | | | 2 | | | 1 | |
| S1 | HUN 101 LIFE SKILLS | CO1 | - | - | - | - | - | 2 | | 1 | 2 | 2 | 1 | 3 | | |
| | | CO2 | - | - | - | - | - | - | - | - | 3 | - | - | 2 | | |
| | | CO3 | - | - | - | - | - | 1 | - | - | 1 | 3 | - | - | | |
| | | CO4 | - | - | - | - | - | - | - | - | - | 3 | - | 1 | | |
| | | CO5 | - | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | |
| | | CO6 | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | |
| Average | | | | 3 | 2 | 1 | | 2 | | 1 | 3 | 3 | 1 | 2 | | |
| S1 | EST 120 BASICS OF CIVIL & MECHANICAL ENGINEERING | CO1 | 3 | - | - | - | - | 3 | 2 | 2 | - | - | - | - | | 1 |
| | | CO2 | 3 | 2 | - | 1 | 3 | - | - | 3 | - | - | - | - | | 1 |
| | | CO3 | 3 | 2 | - | - | 3 | - | - | - | 2 | - | - | - | | 1 |
| | | CO4 | 3 | 2 | - | - | 3 | - | - | - | 2 | - | - | - | | 1 |
| | | CO5 | 3 | 2 | - | - | 3 | 2 | 3 | - | 2 | - | - | - | | 1 |




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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average | | 3 | 2 | | 1 | 3 | 3 | 3 | 3 | 2 | | | | | 1 | |
| S1 | CYL 120 ENGINEERING CHEMISTRY LAB | CO1 | 3 | - | - | - | 2 | - | - | - | - | - | - | 3 | | |
| | | CO2 | 3 | - | - | - | 3 | - | - | - | - | - | - | 3 | | |
| | | CO3 | 3 | - | - | - | 3 | - | - | - | - | - | - | 3 | | |
| | | CO4 | 3 | - | - | - | 3 | - | - | - | - | - | - | 3 | | |
| | | CO5 | 3 | - | - | - | 1 | - | - | - | - | - | - | 3 | | |
| | | CO6 | 3 | - | - | - | 1 | - | - | - | - | - | - | 3 | | |
| Average | | 3 | | | | 3 | | | | | | | 3 | | | |
| S1 | ESL 120 CIVIL & MECHANICAL WORKSHOP | CO1 | 1 | - | - | - | 1 | 1 | - | - | 2 | 2 | - | - | 1 | 1 |
| | | CO2 | 1 | - | - | - | 1 | 1 | - | - | 2 | 2 | - | - | 1 | 1 |
| | | CO3 | 1 | - | - | - | 1 | 1 | - | 2 | 2 | 2 | 1 | - | 1 | 1 |
| | | CO4 | 1 | - | - | - | 1 | 1 | - | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| | | CO5 | 1 | - | - | - | 1 | 1 | - | - | 2 | 2 | - | 1 | 1 | 1 |
| | | CO6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | CO7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | CO8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Average | | 2 | | | | 1 | 1 | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | |
| S2 | MAT 102 VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS | CO1 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO2 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO3 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO4 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| | | CO5 | 3 | 3 | 3 | 3 | 2 | 1 | - | - | 1 | 2 | - | 2 | 1 | |
| Average | | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | 1 | | |
| S2 | PHT 110 ENGINEERING PHYSICS B | CO1 | 3 | 2 | - | - | - | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO2 | 3 | 2 | - | - | - | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO3 | 3 | 2 | - | - | - | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO4 | 3 | - | - | - | - | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO5 | 3 | 2 | - | - | - | - | - | 1 | 2 | - | - | 1 | 1 | |
| Average | | 3 | 2 | | | | | | 1 | 2 | | | 1 | 1 | | |
| S2 | EST 100 ENGINEERING MECHANICS | CO1 | 2 | 2 | - | - | - | - | - | - | - | - | - | 3 | 1 | |
| | | CO2 | 3 | 3 | - | - | - | - | - | - | - | - | - | 3 | 1 | |
| | | CO3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 3 | 1 | |
| | | CO4 | 3 | 3 | - | - | - | - | - | - | - | - | - | 3 | 1 | |
| | | CO5 | 3 | 3 | - | - | - | - | - | - | - | - | - | 3 | 1 | |
| Average | | 3 | 3 | | | | | | | | | | 3 | 1 | | |
| S2 | EST 130 BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING | CO1 | - | - | - | - | - | - | - | - | 3 | - | 2 | | | |
| | | CO2 | - | - | - | - | - | - | - | - | 1 | - | 3 | | | |
| | | CO3 | - | - | - | - | - | 1 | - | - | 1 | 3 | - | - | | |
| | | CO4 | - | - | - | - | - | - | - | - | - | 3 | - | 1 | | |
| | | CO5 | - | - | - | - | - | - | - | - | 2 | 3 | - | - | | |

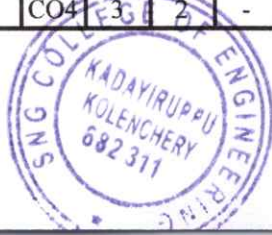



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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO6 | 1 | - | - | - | - | 1 | - | - | 1 | 3 | - | - | | |
| Average | | | 1 | 1 | | | | 1 | | | 2 | 3 | | 2 | | |
| S2 | HUN 102 PROFESSIONAL COMMUNICATION | CO1 | 3 | 2 | - | - | - | - | - | - | - | 1 | - | - | | |
| | | CO2 | 3 | 2 | - | - | - | - | - | - | - | 1 | - | - | | |
| | | CO3 | 3 | 2 | - | - | - | - | - | - | - | 1 | - | - | | |
| | | CO4 | 3 | 2 | - | - | - | - | - | - | - | 1 | - | - | | |
| | | CO5 | 3 | | | | | | | | | 1 | | | | |
| | | CO6 | 3 | - | - | - | - | - | - | - | - | 1 | - | - | | |
| Average | | | 3 | 2 | | | | | | | | 1 | | | | |
| S2 | EST 102 PROGRAMMING IN C | CO1 | 2 | 3 | 3 | 2 | | | | | | | | 3 | 3 | 3 |
| | | CO2 | 2 | 3 | 3 | 2 | | | | | | | | 2 | 3 | 2 |
| | | CO3 | 2 | 3 | 3 | 1 | | | | | | | | 2 | 3 | 2 |
| | | CO4 | 2 | 2 | 2 | 1 | | | | | | | | 2 | 3 | 2 |
| | | CO5 | 3 | 2 | 2 | 2 | | | | | | | | 2 | 3 | 1 |
| | | CO6 | 3 | 2 | 2 | 2 | | | | | | | | 3 | 3 | 2 |
| Average | | | 2 | 3 | 3 | 2 | | | | | | | | 2 | 3 | 2 |
| S2 | PHL 120 ENGINEERING PHYSICS LAB | CO1 | 3 | - | - | - | 3 | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO2 | 3 | - | - | - | 3 | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO3 | 3 | - | - | - | 3 | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO4 | 3 | - | - | - | 3 | - | - | 1 | 2 | - | - | 1 | 1 | |
| | | CO5 | 3 | - | - | - | 3 | - | - | 1 | 2 | - | - | 1 | 1 | |
| Average | | | 3 | | | 3 | | | 1 | 2 | | | 1 | 1 | | |
| S2 | ESL 130 ELECTRICAL & ELECTRONICS WORKSHOP | CO1 | - | - | - | - | 3 | - | - | - | - | - | - | 1 | | |
| | | CO2 | 2 | - | - | - | - | - | - | - | - | 1 | - | - | | |
| | | CO3 | 2 | - | - | 1 | - | 1 | - | 1 | 2 | 2 | - | 2 | | |
| | | CO4 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | | |
| | | CO5 | 3 | - | - | - | 2 | - | - | - | - | - | - | 2 | | |
| | | CO6 | 3 | - | - | - | 2 | - | - | - | - | - | - | 1 | | |
| | | CO7 | - | - | - | - | - | - | - | - | 3 | 2 | - | 2 | | |
| Average | | | 3 | | | 1 | 2 | 2 | | 1 | 3 | 2 | | 2 | 1 | |
| S3 | MAT 201 PARTIAL DIFFERENTIAL EQUATION AND COMPLEX ANALYSIS | CO1 | 3 | 3 | 3 | 3 | 2 | 1 | | | | 2 | | 2 | 1 | |
| | | CO2 | 3 | 3 | 3 | 3 | 2 | 1 | | | | 2 | | 2 | 1 | |
| | | CO3 | 3 | 3 | 3 | 3 | 2 | 1 | | | | 2 | | 2 | 1 | |
| | | CO4 | 3 | 3 | 3 | 3 | 2 | 1 | | | | 2 | | 2 | 1 | |
| | | CO5 | 3 | 3 | 3 | 3 | 3 | 1 | | | | 2 | | 2 | 1 | |
| Average | | | 3 | 3 | 3 | 3 | 3 | 1 | | | | 2 | | 2 | 1 | |
| S3 | CET 201 MECHANICS OF SOLIDS | CO1 | 1 | - | | | | | | | | | | | 3 | 1 |
| | | CO2 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO3 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO4 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |

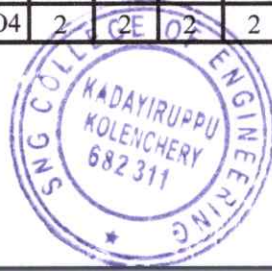



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|---------|---|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|----------|----------|----------|---|
| | | CO5 | 3 | 2 | - | - | - | - | - | - | - | - | - | 3 | 1 | |
| | | CO6 | 3 | 3 | 1 | - | - | - | - | - | - | - | - | 3 | 1 | |
| Average | | | 3 | 2 | 1 | | | | | | | | | 3 | 1 | |
| S3 | CET 203 FLUID MECHANICS I | CO1 | 2 | 2 | - | - | - | - | - | - | - | - | - | 3 | 2 | |
| | | CO2 | 2 | 2 | - | - | - | - | - | - | - | - | - | 3 | 2 | |
| | | CO3 | 3 | 3 | - | - | - | 1 | - | - | - | - | - | 3 | 2 | |
| | | CO4 | 3 | 3 | - | - | - | 1 | - | - | - | - | - | 3 | 2 | |
| | | CO5 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 3 | 2 | |
| Average | | | 3 | 3 | 2 | | 1 | | | | | | 3 | 2 | | |
| S3 | CET 205 SURVEYING AND GEOMATICS | CO1 | 3 | 3 | - | 2 | 2 | - | - | - | - | - | - | - | 1 | |
| | | CO2 | 3 | 3 | - | 2 | | - | - | - | - | - | - | 1 | 1 | |
| | | CO3 | 3 | 3 | - | - | | - | - | 1 | 2 | - | - | - | - | 1 |
| | | CO4 | 3 | 2 | - | | | - | - | - | - | - | - | - | 1 | 1 |
| | | CO5 | 3 | 2 | 1 | 1 | | - | - | 1 | 2 | - | - | - | 1 | 1 |
| | | CO6 | 3 | - | - | 2 | 2 | | | 1 | | | | 2 | 2 | 1 |
| Average | | | 3 | 3 | 1 | 2 | 2 | | 1 | 2 | | | 2 | 2 | 1 | |
| S3 | MCN 201 SUSTAINABLE ENGINEERING | CO1 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | 1 | 1 | |
| | | CO2 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | 1 | 1 | |
| | | CO3 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | 1 | 1 | |
| | | CO4 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | 1 | 1 | |
| | | CO5 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | 1 | 1 | |
| Average | | | | | | | 2 | 3 | | | | | 2 | 1 | 1 | |
| S3 | EST 200 DESIGN AND ENGINEERING | CO1 | 2 | 1 | - | - | - | - | 1 | - | - | 1 | - | 1 | 3 | |
| | | CO2 | - | 2 | - | - | - | 1 | - | 1 | - | - | - | 2 | 1 | 3 |
| | | CO3 | - | - | 2 | - | - | 1 | 1 | - | 2 | 2 | - | 1 | 1 | 3 |
| Average | | | 2 | 2 | 2 | | 1 | 1 | 1 | 2 | 2 | | 2 | 1 | 3 | |
| S3 | CE 231 CIVIL ENGG. DRAFTING LAB | CO1 | 3 | - | - | - | - | - | 2 | 3 | 3 | - | - | 3 | 3 | |
| | | CO2 | 3 | - | - | - | - | - | 2 | 3 | 3 | - | - | 3 | 3 | |
| | | CO3 | 3 | - | - | - | - | - | 2 | 3 | 3 | - | - | 3 | 3 | |
| | | CO4 | 3 | | | | | | 2 | 2 | 3 | - | - | 3 | 3 | |
| Average | | | 3 | | | | | | 2 | 3 | 3 | | | 3 | 3 | |
| S3 | CE 233 SURVEYING LAB | CO1 | 3 | - | - | - | - | - | 1 | 2 | - | - | - | 3 | - | |
| | | CO2 | 3 | - | - | 1 | - | - | 1 | 2 | - | - | - | 3 | - | |
| | | CO3 | 3 | - | - | 1 | - | - | 1 | 2 | - | - | - | 3 | - | |
| | | CO4 | 3 | - | - | 1 | 3 | - | - | 1 | 2 | - | - | 2 | 3 | - |
| | | CO5 | 3 | - | - | - | 3 | - | - | 1 | - | - | - | 2 | 3 | - |
| Average | | | 3 | | | 1 | 3 | | 1 | 2 | | | 2 | 3 | | |
| S4 | MA 202 PROBABILITY STATISTICS AND NUMERICAL METHODS | CO1 | 3 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | - |
| | | CO2 | 3 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | - |
| | | CO3 | 3 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | - |
| | | CO4 | 2 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | - |





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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO5 | 3 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | - | |
| | | CO6 | 3 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | - | |
| Average | | | 3 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | 1 | | |
| S4 | CET 202 ENGINEERING GEOLOGY | CO1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO4 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO5 | 3 | 1 | 3 | - | - | 3 | 3 | 2 | - | - | - | - | 2 | 3 | 1 |
| Average | | | 3 | 2 | 3 | | | 3 | 3 | 2 | | | | 2 | 3 | 1 | |
| S4 | CET 204 GEOTECHNICAL ENGINEERING | CO1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 |
| | | CO2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - |
| | | CO3 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 |
| | | CO4 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 |
| | | CO5 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 |
| Average | | | 3 | 3 | | | | | | | | | | | 2 | 2 | |
| S4 | CET 206 TRANSPORTATION ENGINEERING | CO1 | 3 | 3 | 3 | 1 | - | 1 | 3 | 1 | - | 2 | - | 1 | 3 | 1 | |
| | | CO2 | 3 | 1 | 3 | 1 | - | 1 | 1 | 1 | - | 1 | - | 1 | 3 | 2 | |
| | | CO3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | 2 | - | 2 | 3 | 2 | |
| | | CO4 | 2 | - | - | - | - | - | 2 | 1 | - | - | - | 2 | 3 | 1 | |
| | | CO5 | 3 | 3 | 3 | - | - | 3 | - | 2 | - | - | - | - | 3 | 2 | |
| Average | | | 3 | 3 | 3 | 1 | | 2 | 2 | 2 | 1 | 2 | | 2 | 3 | 2 | |
| S4 | HUT 200 PROFESSIONAL ETHICS | CO1 | - | - | - | - | - | - | - | 2 | - | - | 2 | - | | | |
| | | CO2 | - | - | - | - | - | - | - | 2 | - | - | 2 | - | | | |
| | | CO3 | - | - | - | - | - | - | - | 3 | - | - | 2 | - | | | |
| | | CO4 | - | - | - | - | - | - | - | 3 | - | - | 2 | - | | | |
| | | CO5 | | | | | | | | 3 | | | 2 | | | | |
| Average | | | | | | | | | 3 | | | 2 | | | | | |
| S4 | MCN 202 CONSTITUTION OF INDIA | CO1 | - | - | - | - | - | 2 | 2 | 2 | - | 2 | - | - | 3 | - | |
| | | CO2 | - | - | - | - | - | 3 | 3 | 3 | - | 3 | - | - | 2 | 1 | |
| | | CO3 | - | - | - | - | - | 3 | 2 | 3 | - | 3 | - | - | 3 | 1 | |
| | | CO4 | - | - | - | - | - | 3 | 2 | 3 | - | 3 | - | - | 3 | 1 | |
| | | CO5 | - | - | - | - | - | 3 | 2 | 3 | - | 3 | - | - | 3 | 1 | |
| | | CO6 | | | | | | | 3 | 3 | 3 | | 2 | | | | |
| Average | | | | | | | 3 | 3 | 3 | | 3 | | | 3 | 1 | | |
| S4 | CEL 202 MATERIALS TESTING LAB I | CO1 | 3 | 2 | 2 | 2 | 1 | 3 | - | - | 2 | 2 | - | 2 | 3 | 2 | |
| | | CO2 | 3 | 2 | 2 | 2 | 1 | 3 | - | - | 2 | 2 | - | 2 | 3 | 1 | |
| | | CO3 | 3 | 2 | 2 | 2 | 1 | 3 | - | - | 2 | 2 | - | 2 | 3 | 1 | |
| Average | | | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 3 | 2 | |
| S4 | CEL 203 FLUID MECHANICS LAB | CO1 | 2 | 2 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | - | |
| | | CO2 | 2 | 2 | - | - | - | - | - | 2 | 3 | - | - | - | 2 | - | |
| | | CO3 | 3 | 3 | - | 2 | - | - | - | 2 | 3 | 3 | - | - | 2 | - | |
| | | CO4 | 1 | | | | | | | | 2 | 3 | 3 | - | - | - | |
| Average | | | 2 | 3 | | | | | | 2 | 3 | 3 | | 2 | | | |




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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| S5 | CET301 STRUCTURAL ANALYSIS I | CO1 | 2 | 2 | | | | | | | | | | | | | | | |
| | | CO2 | 2 | 2 | | | | | | | | | | | | | | | |
| | | CO3 | 3 | 3 | | | | | | | | | | | | | | | |
| | | CO4 | 3 | 2 | | | | | | | | | | | | | | | |
| | | CO5 | 3 | 2 | | | | | | | | | | | | | | | |
| | | CO6 | 3 | 2 | | | | | | | | | | | | | | | |
| Average | | | 3 | 3 | | | | | | | | | | | | | | | |
| S5 | CE303 DESIGN OF CONCRETE STRUCTURES | CO1 | 1 | | 1 | - | | - | - | - | - | | | | | | | | |
| | | CO2 | 3 | 3 | | - | | - | - | - | - | | | | | | | | |
| | | CO3 | 3 | | 3 | - | | - | - | - | 2 | | | | | | | | |
| | | CO4 | 3 | | 3 | - | | - | - | - | 2 | | | | | | | | |
| | | CO5 | 1 | | 1 | - | | - | - | - | - | | | | | | | | |
| Average | | | 3 | 3 | 2 | | | | | 2 | | | | | | | | | |
| S5 | CET305 Geotechnical Engineering II | CO1 | 3 | | | 3 | | | | | | | | | 3 | 1 | | | |
| | | CO2 | 3 | | | | | | | | | | | | 3 | 2 | | | |
| | | CO3 | 2 | 3 | | | | | | | | | | | 3 | 2 | | | |
| | | CO4 | 2 | 2 | 3 | | | | | | | | | | 3 | 2 | | | |
| | | CO5 | 3 | 3 | | | | | | | | | | | 3 | 1 | | | |
| Average | | | 3 | 3 | 3 | 3 | | | | | | | | 3 | 2 | | | | |
| S5 | CET307 WATER RESOURCE ENGINEERING | CO1 | 3 | 3 | | 1 | | | | 1 | | | | | 2 | - | | | |
| | | CO2 | | 3 | | | | | | 1 | | | | | 3 | 1 | | | |
| | | CO3 | 3 | 2 | | | | | | 1 | | | | | 3 | - | | | |
| | | CO4 | 3 | 3 | | | | | | 1 | | | | | 2 | - | | | |
| | | CO5 | 3 | 3 | | | | | | 1 | | | | | 3 | 1 | | | |
| Average | | | 3 | 3 | | 1 | | | 1 | | | | | 3 | 1 | | | | |
| S5 | CET309 CONSTRUCTION TECHNOLOGY AND MANAGEMENT | CO1 | 3 | | | | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | |
| | | CO2 | 3 | | | | | | 1 | | 1 | | 1 | | 1 | 1 | 1 | | |
| | | CO3 | 3 | | | | | | 1 | | | | 1 | | 1 | 1 | 1 | | |
| | | CO4 | 3 | | | | | | 2 | 1 | | | 1 | | 1 | | | | |
| | | CO5 | 3 | 2 | | | | | 1 | | | | 1 | 3 | 1 | 1 | 1 | 1 | |
| | | CO6 | 3 | 3 | 3 | | 1 | | | | | 2 | 1 | 3 | 1 | 1 | 1 | 1 | |
| Average | | | 3 | 3 | 3 | | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | | |
| S5 | MCN 301 DISASTER MANAGEMENT | CO1 | | 2 | | | | | 2 | | | | 2 | | 2 | 1 | - | | |
| | | CO2 | 2 | 3 | 2 | | 2 | 2 | 3 | | | 3 | | 2 | 1 | - | | | |
| | | CO3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | | | 3 | | 2 | 1 | - | | | |
| | | CO4 | 3 | 3 | 3 | | 2 | 2 | 3 | | | | | 2 | 1 | - | | | |
| | | CO5 | 3 | 3 | | | 2 | 2 | 3 | | | | | 2 | 1 | - | | | |
| | | CO6 | 3 | 3 | | | 2 | 3 | 3 | | | | | 2 | 1 | - | | | |

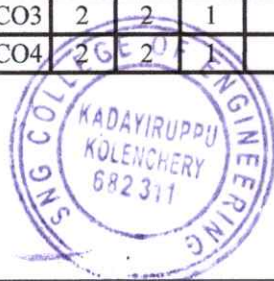




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|---------|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Average | | | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | | 3 | | 2 | 1 | | | |
| S5 | CEL331 MATERIAL TESTING LAB II | CO1 | 3 | 2 | 2 | 2 | 1 | 3 | | | | 2 | 2 | | 2 | 1 | 2 | |
| | | CO2 | 3 | 2 | 2 | 2 | 1 | 3 | | | | 2 | 2 | | 2 | 1 | 2 | |
| | | CO3 | 3 | 2 | 2 | 2 | 1 | 3 | | | | 2 | 2 | | 2 | 1 | 2 | |
| Average | | | 3 | 2 | 2 | 2 | 1 | 3 | | | | 2 | 2 | | 2 | 1 | 2 | |
| S5 | CEL333 GEOTECHNICAL ENGINEERING LAB | CO1 | 3 | | | | 1 | | | | | 2 | 2 | - | - | 2 | 2 | |
| | | CO2 | 3 | | | | 2 | | | | | 2 | 2 | - | - | 2 | 2 | |
| | | CO3 | 3 | 2 | | | | | | | | 2 | 2 | - | - | 2 | 1 | |
| | | CO4 | 3 | | | | 1 | | | | | 2 | 2 | - | - | 2 | 1 | |
| | | CO5 | 3 | | | | 2 | | | | | 2 | 2 | - | - | 2 | 1 | |
| | | CO6 | 3 | 1 | | | 2 | | | | | 2 | 2 | | | | | |
| Average | | | 3 | 2 | | | 2 | | | | | 2 | 2 | | | 2 | 2 | |
| S6 | CET302 STRUCTURAL ANALYSIS II | CO1 | 3 | 2 | | | | | | | | | | | | 3 | 1 | |
| | | CO2 | 3 | 3 | 2 | | | | | | | | | | | 3 | 1 | |
| | | CO3 | 3 | 3 | 1 | | | | | | | | | | | 3 | 1 | |
| | | CO4 | 3 | 3 | 1 | | | | | | | | | | | 2 | 1 | |
| | | CO5 | 3 | 3 | 1 | | | | | | | | | | | 2 | | |
| | | CO6 | 3 | 3 | 1 | | | | | | | | | | | 2 | 1 | |
| Average | | | 3 | 3 | 2 | | | | | | | | | | 3 | 1 | | |
| S6 | CET 304 ENVIRONMENTAL ENGINEERING | CO1 | | | | | | 2 | 2 | | | | | | | 2 | 1 | |
| | | CO2 | 3 | | 3 | | | | | | | | | | | 2 | 1 | |
| | | CO3 | 3 | | 3 | | | | | | | | | | | 1 | 1 | |
| | | CO4 | 3 | | 3 | | | | | | | | | | | 1 | 1 | |
| Average | | | 3 | | 3 | | | 2 | 2 | | | | | | 2 | 1 | | |
| S6 | CET 306 DESIGN OF HYDRAULIC STRUCTURES | CO1 | 3 | 2 | | | | | | 1 | | | | | | 2 | 1 | |
| | | CO2 | | 2 | 3 | | | | | | | | | | | 2 | 1 | |
| | | CO3 | 3 | 3 | 3 | | | | | | | | | | | 2 | 1 | |
| | | CO4 | | | | | | | | | | | 3 | | | 3 | 1 | |
| | | CO5 | 3 | 2 | | | | | 1 | 1 | | | | | | 1 | 1 | |
| Average | | | 3 | 3 | 3 | | | | 1 | 1 | | | 3 | | 2 | 1 | | |
| S6 | CET 352 ADVANCED CONCRETE TECHNOLOGY | CO1 | 3 | 2 | 2 | 2 | 1 | 2 | | | - | - | - | - | - | 3 | 2 | |
| | | CO2 | 3 | 3 | 3 | 2 | 1 | 2 | | | - | - | - | - | - | 3 | 2 | |
| | | CO3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | | | - | - | - | - | 3 | 2 | |
| | | CO4 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | | | - | - | - | - | 3 | 2 | |
| | | CO5 | 1 | 2 | 2 | 2 | 1 | 2 | | | | - | - | - | - | 2 | 1 | |
| Average | | | 3 | 3 | 3 | 2 | 2 | 2 | 2 | | | | | | 3 | 2 | | |
| S6 | HUT 300 INDUSTRIAL ECONOMICS AND FOREIGN TRADE MANAGEMENT | CO1 | 2 | | | | | | | | | | | 3 | | 2 | 2 | |
| | | CO2 | 2 | 2 | | | 2 | 2 | 3 | | | | | 3 | | 2 | 2 | |
| | | CO3 | 2 | 2 | 1 | | | | | | | | | 3 | | 2 | 2 | |
| | | CO4 | 2 | 2 | 1 | | | | 1 | | | | | 3 | | 2 | 2 | |




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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO5 | 2 | 2 | 1 | | | | | | | | 3 | | 2 | 2 | |
| Average | | | 2 | 2 | 1 | | 2 | 2 | 3 | | | | 3 | | 2 | 2 | |
| S6 | CET 308 COMPREHENSIVE COURSE WORK | CO1 | 3 | 1 | 1 | | | 2 | | | | | | | - | - | |
| | | CO2 | 3 | 1 | | | | 2 | | | | 3 | | | - | - | |
| | | CO3 | 3 | 1 | | | 1 | 2 | | | | 3 | | | - | - | |
| | | CO4 | 3 | 3 | | | 1 | 2 | | | | | | | - | - | |
| Average | | | 3 | 2 | 1 | | 1 | 2 | | | | 3 | | | | | |
| S6 | CEL332 TRANSPORTATION ENGINEERING LAB | CO1 | 3 | | | 2 | | | | 1 | 2 | | | | 1 | 2 | |
| | | CO2 | 3 | | | 2 | | | | 1 | 2 | | | | 1 | 2 | |
| | | CO3 | 3 | | | 2 | | | | 1 | 2 | | | 2 | 1 | 2 | |
| | | CO4 | 3 | | | 2 | | | | 1 | 2 | | | 2 | 1 | 2 | |
| | | CO5 | 3 | | | 2 | | | | 1 | 2 | | | 2 | 1 | 2 | |
| Average | | | 3 | | | 2 | | | 1 | 2 | | | 2 | 1 | 2 | | |
| S6 | CE334 CIVIL ENGINEERING SOFTWARE LAB | CO1 | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 3 | 1 | |
| | | CO2 | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 2 | 1 | |
| | | CO3 | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 1 | 1 | |
| Average | | | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 2 | 1 | |
| S7 | CET401 DESIGN OF STEEL STRUCTURES | CO1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO2 | 2 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO3 | 2 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO4 | 2 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| | | CO5 | 2 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 3 | 1 |
| Average | | | 3 | 3 | 3 | | | | | | | | | | 3 | 1 | |
| S7 | CET453 CONSTRUCTION PLANNING & MANAGEMENT | CO1 | 3 | 3 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | 2 | 2 |
| | | CO2 | 3 | 3 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | 2 | 2 |
| | | CO3 | 3 | 3 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | 2 | 2 |
| | | CO4 | 3 | 3 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | 2 | 2 |
| | | CO5 | 3 | 3 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | 2 | 2 |
| Average | | | 3 | 3 | 3 | 1 | 1 | 2 | | | | | | | 2 | 2 | |
| S7 | CET415 ENVIRONMENTAL IMPACT ASSESSMENT | CO1 | - | - | - | - | - | 2 | 2 | - | - | - | - | - | | 1 | |
| | | CO2 | - | - | - | - | - | 2 | - | - | - | - | - | - | | 1 | |
| | | CO3 | 2 | - | - | 3 | 2 | - | 3 | - | - | - | - | - | | 1 | |
| | | CO4 | - | - | - | 2 | - | 2 | 2 | 3 | - | 3 | - | - | | 1 | |
| | | CO5 | - | - | - | 2 | 1 | - | 2 | 2 | - | 2 | - | - | | 1 | |
| Average | | | 2 | | | 3 | 2 | 2 | 3 | 3 | | 3 | | | | 1 | |
| S7 | MCN401 INDUSTRIAL SAFETY ENGINEERING | CO1 | 2 | 2 | - | - | - | 2 | 2 | 2 | - | - | - | 1 | | 1 | |
| | | CO2 | 2 | 1 | 2 | - | 1 | 1 | 1 | 1 | - | - | - | 1 | | 1 | |
| | | CO3 | 2 | 2 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | | 1 |
| | | CO4 | 2 | 2 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | | 1 |



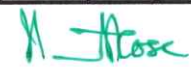
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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO5 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | | 1 |
| Average | | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | | 1 | | 1 |
| S7 | CEL411 ENVIRONMENTAL ENGG LAB | CO1 | 3 | 3 | 3 | 1 | - | 3 | 3 | - | - | - | - | 3 | | 1 |
| | | CO2 | 3 | 3 | 3 | 1 | - | 3 | 3 | - | - | - | - | 3 | | 1 |
| Average | | | 3 | 3 | 3 | 1 | | 3 | 3 | | | | | 3 | | 1 |
| S7 | CEQ413 SEMINAR | CO1 | 2 | 2 | 1 | 1 | - | 2 | 1 | - | - | - | - | 3 | | |
| | | CO2 | 3 | 3 | 2 | 3 | - | 2 | 1 | - | - | - | - | 3 | | |
| | | CO3 | 3 | 2 | - | - | 3 | - | - | 1 | - | 2 | - | 3 | | |
| | | CO4 | 3 | - | - | - | 2 | - | - | 1 | - | 3 | - | 3 | | |
| | | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | - | 2 | - | 3 | - | 3 | | 1 |
| Average | | | 3 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | | 3 | | 3 | | 1 |
| S7 | CED415 PROJECT PHASE I | CO1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | | 3 |
| | | CO2 | 2 | 2 | 2 | - | 1 | 3 | 3 | 1 | 1 | - | 1 | 1 | | 3 |
| | | CO3 | - | - | - | - | - | - | - | - | 3 | 2 | 2 | 1 | | |
| | | CO4 | - | - | - | - | 2 | - | - | 3 | 2 | 2 | 3 | 2 | | 3 |
| | | CO5 | 2 | 3 | 3 | 1 | 2 | - | - | - | - | - | - | 1 | | 3 |
| | | CO6 | - | - | - | - | 2 | - | - | 2 | 2 | 3 | 1 | 1 | | |
| Average | | | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | | 3 |
| S8 | CET 402 QUANTITY SURVEYING & VALUATION | CO1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | | CO2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO3 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO4 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO5 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | |
| | | CO6 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | |
| Average | | | 3 | 2 | | | | | | | | | | | 1 | |
| S8 | CET 464 PROGRAM ELECTIVE III AIRQUALITY MANAGEMENT | CO1 | 3 | - | - | - | - | 2 | 2 | - | - | - | - | - | | |
| | | CO2 | 3 | - | - | - | - | 2 | 1 | - | - | - | - | - | | |
| | | CO3 | 3 | - | - | - | - | 2 | 2 | - | - | - | - | - | 1 | |
| | | CO4 | 3 | - | - | - | - | 3 | 2 | - | - | - | - | - | 2 | |
| | | CO5 | 3 | - | - | - | - | 2 | 2 | - | - | - | - | - | 2 | |
| Average | | | 3 | | | | | 3 | 2 | | | | | | 2 | |
| S8 | CET 456 PROGRAM ELECTIVE IV REPAIR AND REHABILITATION OF BUILDINGS | CO1 | 1 | - | - | - | - | - | - | - | - | - | - | - | | |
| | | CO2 | 3 | 2 | - | 2 | - | - | - | - | - | - | - | - | | |
| | | CO3 | 3 | 2 | 3 | - | 3 | 2 | 1 | - | - | - | - | - | | 1 |
| | | CO4 | 3 | - | - | 1 | 3 | 2 | 1 | - | - | - | - | - | 2 | |
| | | CO5 | 3 | 2 | 2 | 1 | 2 | - | 2 | - | - | - | - | - | | |
| Average | | | 3 | 2 | 3 | 2 | 3 | 2 | 2 | | | | | 2 | 1 | |
| S8 | CET 438 PROGRAM ELECTIVE V | CO1 | 3 | 3 | 3 | 1 | - | 1 | 3 | 1 | - | 2 | - | 1 | 1 | |
| | | CO2 | 3 | 3 | 3 | 1 | - | 1 | 1 | 1 | 1 | - | 1 | - | 1 | 1 |




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|---------|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | AIRPORT, SEAPORT AND HARBOUR ENGINEERING | CO3 | 3 | 2 | 2 | 1 | - | - | - | - | 1 | 2 | - | 2 | 2 | | |
| | | CO4 | 2 | - | - | - | - | - | 2 | 1 | - | - | - | - | 2 | 2 | |
| | | CO5 | 3 | 3 | 3 | - | - | 3 | - | 2 | - | - | - | - | - | 2 | |
| Average | | | 3 | 3 | 3 | 1 | | 2 | 2 | 2 | 1 | 2 | | 2 | 2 | | |
| S8 | CED 416 PROJECT PHASE II | CO1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | |
| | | CO2 | 2 | 2 | 2 | - | 1 | 3 | 3 | 1 | 1 | | 1 | 1 | 2 | 3 | |
| | | CO3 | - | - | - | - | - | - | - | - | 3 | 2 | 2 | 1 | | | |
| | | CO4 | - | - | - | - | 2 | - | - | 3 | 2 | 2 | 3 | 2 | | 1 | |
| | | CO5 | 2 | 3 | 3 | 1 | 2 | - | - | - | - | - | - | 1 | | 3 | |
| | | CO6 | - | - | - | - | 2 | - | - | 2 | 2 | 3 | 1 | 1 | | | |
| Average | | | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | | |

| CO-PO-PSO MAPPING TABLE | | | | | | | | | | | | | | | |
|-------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Semester | Subject | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| S1 | MAT 101 LINEAR ALGEBRA AND CALCULUS | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | 1 | |
| | CYT 100 ENGINEERING CHEMISTRY | 2 | 2 | 1 | 1 | 2 | | 3 | | | | | | | |
| | EST 110 ENGINEERING GRAPHICS | 3 | 1 | | | 3 | | | | | 2 | | | 1 | |
| | EST 120 BASICS OF CIVIL & MECHANICAL ENGINEERING | 3 | 2 | | 1 | 3 | 3 | 3 | 3 | 2 | | | | | 1 |
| | HUN 101 LIFE SKILLS | | 3 | 2 | 1 | | 2 | | 1 | 3 | 3 | 1 | 2 | | |
| | CYL 120 ENGINEERING CHEMISTRY LAB | 3 | | | | 3 | | | | | | | 3 | | |
| | ESL 120 CIVIL & MECHANICAL WORKSHOP | 2 | | | | 1 | 1 | | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| S2 | MAT 102 VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS | 3 | 3 | 3 | 3 | 2 | 1 | | | 1 | 2 | | 2 | 1 | |
| | PHT 110 ENGINEERING PHYSICS B | 3 | 2 | | | | | | 1 | 2 | | | 1 | 1 | |
| | EST 100 ENGINEERING MECHANICS | 3 | 3 | | | | | | | | | | | 3 | 1 |
| | EST 130 BASICS OF ELECTRICAL & ELECTRONICS | 1 | | | | | 1 | | | 2 | 3 | | 2 | | |

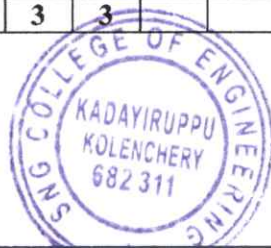




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| | ENGINEERING | | | | | | | | | | | | | | | | |
| | HUN 102 PROFESSIONAL COMMUNICATION | 3 | 2 | | | | | | | | 1 | | | | | | |
| | EST 102 PROGRAMMING IN C | | | | | | | | | | | | | | | | |
| | PHL 120 ENGINEERING PHYSICS LAB | 3 | | | | 3 | | | 1 | 2 | | | 1 | 1 | | | |
| | ESL 130 ELECTRICAL & ELECTRONICS WORKSHOP | 3 | | | | 1 | 2 | 2 | | | 1 | 3 | | 2 | 1 | | |
| S3 | MAT 201 PARTIAL DIFFERENTIAL EQUATION AND COMPLEX ANALYSIS | 3 | 3 | 3 | 3 | 3 | 1 | | | | | | 2 | 2 | 1 | | |
| | CET 201 MECHANICS OF SOLIDS | 3 | 2 | 1 | | | | | | | | | | | 3 | 1 | |
| | CET 203 FLUID MECHANICS I | 3 | 3 | 2 | | | | 1 | | | | | | | 3 | 2 | |
| | CET 205 SURVEYING AND GEOMATICS | 3 | 3 | 1 | 2 | 2 | | | | 1 | 2 | | | | 2 | 2 | 1 |
| | EST 200 DESIGN AND ENGINEERING | 2 | 2 | 2 | | | | 1 | 1 | 1 | 2 | 2 | | | 2 | 1 | 3 |
| | MCN 201 SUSTAINABLE ENGINEERING | | | | | | | | 2 | 3 | | | | | 2 | 1 | 1 |
| | CE 231 CIVIL ENGG. DRAFTING LAB | 3 | | | | | | | | | 2 | 3 | 3 | | | 3 | 3 |
| | CE 233 SURVEYING LAB | 3 | | | | 1 | 3 | | | | 1 | 2 | | | 2 | 3 | |
| S4 | MA 202 PROBABILITY STATISTICS AND NUMERICAL METHODS | 3 | 2 | 2 | 2 | 2 | | | | | | | 2 | | 1 | 1 | |
| | CET 202 ENGINEERING GEOLOGY | 3 | 2 | 3 | | | | 3 | 3 | 2 | | | | | 2 | 3 | 1 |
| | CET 204 GEOTECHNICAL ENGINEERING | 3 | 3 | | | | | | | | | | | | | 2 | 2 |
| | CET 206 TRANSPORTATION ENGINEERING | 3 | 3 | 3 | 1 | | | 2 | 2 | 2 | 1 | 2 | | | 2 | 3 | 2 |
| | MCN 202 CONSTITUTION OF INDIA | | | | | | | 3 | 3 | 3 | | | 3 | | | 3 | 1 |
| | HUT 200 PROFESSIONAL ETHICS | | | | | | | | | | 3 | | | 2 | | | |
| | CEL 202 MATERIALS TESTING LAB I | 3 | 2 | 2 | 2 | 1 | 3 | | | | | 2 | 2 | | 2 | 3 | 2 |
| | CEL 203 FLUID MECHANICS LAB | 2 | 3 | | | 2 | | | | | 2 | 3 | 3 | | | 2 | |
| S5 | CET301 STRUCTURAL | 3 | 3 | | | | | | | | | | | | | | |

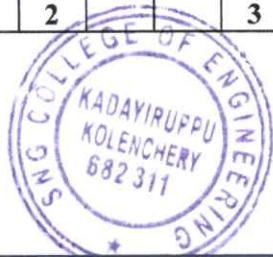



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|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANALYSIS I | | | | | | | | | | | | | |
| | CE303 DESIGN OF CONCRETE STRUCTURES | 3 | 3 | 2 | | | | | | 2 | | | | |
| | CET305 GEOTECHNICAL ENGINEERING II | 3 | 3 | 3 | 3 | | | | | | | | 3 | 2 |
| | CET307 WATER RESOURCE ENGINEERING | 3 | 3 | | 1 | | | 1 | | | | | 3 | 1 |
| | CET309 CONSTRUCTION TECHNOLOGY AND MANAGEMENT | 3 | 3 | 3 | | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 |
| | MCN 301 DISASTER MANAGEMENT | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | | 3 | | 2 | 1 |
| | CEL331 MATERIAL TESTING LAB II | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 1 |
| | CEL333 GEOTECHNICAL ENGINEERING LAB | 3 | 2 | | | 2 | | | | 2 | 2 | | 2 | 2 |
| | CET302 STRUCTURAL ANALYSIS II | 3 | 3 | 2 | | | | | | | | | 3 | 1 |
| | CET 304 ENVIRONMENTAL ENGINEERING | 3 | | 3 | | | 2 | 2 | | | | | 2 | 1 |
| | CET 306 DESIGN OF HYDRAULIC STRUCTURES | 3 | 3 | 3 | | | 1 | 1 | | | 3 | | 2 | 1 |
| | CET 352 ADVANCED CONCRETE TECHNOLOGY | 3 | 3 | 3 | 2 | 2 | 2 | 2 | | | | | 3 | 2 |
| S6 | HUT 300 INDUSTRIAL ECONOMICS AND FOREIGN TRADE MANAGEMENT | 2 | 2 | 1 | | 2 | 2 | 3 | | | | 3 | 2 | 2 |
| | CET 308 COMPREHENSIVE COURSE WORK | 3 | 2 | 1 | | 1 | 2 | | | | 3 | | | |
| | CEL332 TRANSPORTATION ENGINEERING LAB | 3 | | | 2 | | | | 1 | 2 | | | 2 | 1 |
| | CE334 CIVIL ENGINEERING SOFTWARE LAB | 3 | 2 | 2 | 2 | 1 | 3 | | | 2 | 2 | | 2 | 2 |
| | CET401 DESIGN OF STEEL STRUCTURES | 3 | 3 | 3 | | | | | | | | | 3 | 1 |
| S7 | CET453 CONSTRUCTION PLANNING & MANAGEMENT | 3 | 3 | 3 | 1 | 1 | 2 | | | | | | 2 | 2 |
| | CET415 ENVIRONMENTAL | 2 | | | 3 | 2 | 2 | 3 | 3 | | 3 | | | 1 |




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| | IMPACT ASSESSMENT | | | | | | | | | | | | | | | |
| | MCN401 INDUSTRIAL SAFETY ENGINEERING | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | | | 1 | | 1 |
| | CEL411 ENVIRONMENTAL ENGG LAB | 3 | 3 | 3 | 1 | | 3 | 3 | | | | | 3 | | 1 | |
| | CEQ413 SEMINAR | 3 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | | 3 | | 3 | | 1 | |
| | CED415 PROJECT PHASE I | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | | 3 | |
| S8 | CET 402 QUANTITY SURVEYING & VALUATION | 3 | 2 | | | | | | | | | | | | 1 | |
| | CET 464 PROGRAM ELECTIVE III AIRQUALITY MANAGEMENT | 3 | | | | | 3 | 2 | | | | | | | 2 | |
| | CET 456 PROGRAM ELECTIVE IV REPAIR AND REHABILITATION OF BUILDINGS | 3 | 2 | 3 | 2 | 3 | 2 | 2 | | | | | | 2 | 1 | |
| | CET 438 PROGRAM ELECTIVE V AIRPORT, SEAPORT AND HARBOUR ENGINEERING | 3 | 3 | 3 | 1 | | 2 | 2 | 2 | 1 | 2 | | 2 | 2 | | |
| | CED 416 PROJECT PHASE II | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | | | | | | | | | | | | | | | | |

PO ATTAINMENT CALCULATION OF 2019-2023 BATCH

| Semester | Subject | CO Attainment Value | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|----------|--|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| S1 | MAT 101 LINEAR ALGEBRA AND CALCULUS | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.8 | 0.4 | | | 0.4 | 0.8 | | 0.8 | 0.4 | |
| | CYT 100 ENGINEERING CHEMISTRY | 2.8 | 1.9 | 1.9 | 0.9 | 0.9 | 1.9 | | 2.8 | | | | | | | |
| | EST 110 ENGINEERING GRAPHICS | 2.8 | 2.8 | 0.9 | | | 2.8 | | | | | 1.9 | | | 0.9 | |
| | EST 120 BASICS OF CIVIL & MECHANICAL ENGINEERING | 3 | 3.0 | 2.0 | | 1.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.0 | | | | | 1.0 |
| | HUN 101 LIFE SKILLS | 2.8 | 2.8 | 1.9 | 0.9 | | | 1.9 | | 0.9 | 2.8 | 2.8 | 0.9 | 1.9 | | |



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|----|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | CYL 120 ENGINEERING CHEMISTRY LAB | 3 | 3.0 | | | | 3.0 | | | | | | 3.0 | | | | |
| | ESL 120 CIVIL & MECHANICAL WORKSHOP | 3 | 2.0 | | | | 1.0 | 1.0 | | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | | |
| S2 | MAT 102 VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.2 | 0.6 | | | 0.6 | 1.2 | | 1.2 | 0.6 | | |
| | PHT 110 ENGINEERING PHYSICS B | 1.8 | 1.8 | 1.2 | | | | | | 0.6 | 1.2 | | | 0.6 | 0.6 | | |
| | EST 100 ENGINEERING MECHANICS | 1.8 | 1.8 | 1.8 | | | | | | | | | | | 1.8 | 0.6 | |
| | EST 130 BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING | 2.6 | 0.9 | 0.9 | | | | 0.9 | | | | 1.7 | 2.6 | | 1.7 | | |
| | HUN 102 PROFESSIONAL COMMUNICATION | 2.4 | 2.4 | 1.6 | | | | | | | | 0.8 | | | | | |
| | EST 102 PROGRAMMING IN C | 1.6 | | | | | | | | | | | | | | | |
| | PHL 120 ENGINEERING PHYSICS LAB | 3 | 3.0 | | | | | 3.0 | | | 1.0 | 2.0 | | | 1.0 | 1.0 | |
| | ESL 130 ELECTRICAL & ELECTRONICS WORKSHOP | 3.00 | 3.0 | | | | 1.0 | 2.0 | 2.0 | | 1.0 | 3.0 | | | 2.0 | 1.0 | |
| | MAT 201 PARTIAL DIFFERENTIAL EQUATION AND COMPLEX ANALYSIS | 1.20 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.4 | | | | 0.8 | | 0.8 | 0.4 | |
| S3 | CET 201 MECHANICS OF SOLIDS | 0.20 | 0.2 | 0.1 | 0.1 | | | | | | | | | | 0.2 | 0.1 | |
| | CET 203 FLUID MECHANICS I | 1.20 | 1.2 | 1.2 | 0.8 | | | 0.4 | | | | | | | 1.2 | 0.8 | |
| | CET 205 SURVEYING AND GEOMATICS | 2.80 | 2.8 | 2.8 | 0.9 | 1.9 | 1.9 | | | | 0.9 | 1.9 | | | 1.9 | 1.9 | 0.9 |
| | EST 200 DESIGN AND ENGINEERING | 1.20 | 0.8 | 0.8 | 0.8 | | | | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | | 0.8 | 0.4 | 1.2 |
| | MCN 201 SUSTAINABLE ENGINEERING | 1.00 | | | | | | | 0.7 | 1.0 | | | | | 0.7 | 0.3 | 0.3 |




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|-------------------------------------|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | CE 231 CIVIL ENGG. DRAFTING LAB | 2.40 | 2.4 | | | | | | | 1.6 | 2.4 | 2.4 | | | 2.4 | 2.4 |
| | CE 233 SURVEYING LAB | 2.20 | 2.2 | | | 0.7 | 2.2 | | | 0.7 | 1.5 | | | 1.5 | 2.2 | |
| S4 | MA 202 PROBABILITY STATISTICS AND NUMERICAL METHODS | 1.20 | 1.2 | 0.8 | 0.8 | 0.8 | 0.8 | | | | | 0.8 | | 0.4 | 0.4 | |
| | CET 202 ENGINEERING GEOLOGY | 1.80 | 1.8 | 1.2 | 1.8 | | | 1.8 | 1.8 | 1.2 | | | | 1.2 | 1.8 | 0.6 |
| | CET 204 GEOTECHNICAL ENGINEERING | 0.80 | 0.8 | 0.8 | | | | | | | | | | | 0.5 | 0.5 |
| | CET 206 TRANSPORTATION ENGINEERING | 1.80 | 1.8 | 1.8 | 1.8 | 0.6 | | 1.2 | 1.2 | 1.2 | 0.6 | 1.2 | | 1.2 | 1.8 | 1.2 |
| | MCN 202 CONSTITUTION OF INDIA | 2.40 | | | | | | 2.4 | 2.4 | 2.4 | | 2.4 | | | 2.4 | 0.8 |
| | HUT 200 PROFESSIONAL ETHICS | 1.20 | | | | | | | | 1.2 | | | 0.8 | | | |
| | CEL 202 MATERIALS TESTING LAB I | 1.80 | 1.8 | 1.2 | 1.2 | 1.2 | 0.6 | 1.8 | | | 1.2 | 1.2 | | 1.2 | 1.8 | 1.2 |
| | CEL 203 FLUID MECHANICS LAB | 2.00 | 1.3 | 2.0 | | 1.3 | | | | 1.3 | 2.0 | 2.0 | | | | |
| S5 | CET301 STRUCTURAL ANALYSIS I | 2.40 | 2.4 | 2.4 | | | | | | | | | | | | |
| | CE303 DESIGN OF CONCRETE STRUCTURES | 2.00 | 2.0 | 2.0 | 1.3 | | | | | | 1.3 | | | | | |
| | CET305 GEOTECHNICAL ENGINEERING II | 2.00 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | | | | | 2.0 | 1.3 |
| | CET307 WATER RESOURCE ENGINEERING | 2.80 | 2.8 | 2.8 | | 0.9 | | | 0.9 | | | | | | 2.8 | 0.9 |
| | CET309 CONSTRUCTION TECHNOLOGY AND MANAGEMENT | 2.40 | 2.4 | 2.4 | 2.4 | | 0.8 | 1.6 | 0.8 | 0.8 | 1.6 | 0.8 | 2.4 | 0.8 | 0.8 | 0.8 |
| | MCN 301 DISASTER MANAGEMENT | 1.80 | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | | 1.8 | | 1.2 | 0.6 | |
| | CEL331 MATERIAL TESTING LAB II | 1.80 | 1.8 | 1.2 | 1.2 | 1.2 | 0.6 | 1.8 | | | 1.2 | 1.2 | | 1.2 | 0.6 | 1.2 |
| CEL333 GEOTECHNICAL ENGINEERING LAB | 1.80 | 1.8 | 1.2 | | | | 1.2 | | | | 1.2 | 1.2 | | 1.2 | 1.2 | |



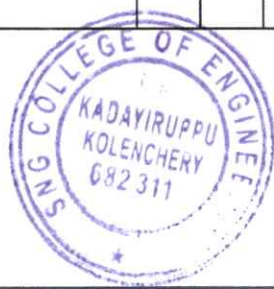

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|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| S6 | CET302 STRUCTURAL ANALYSIS II | 2.40 | 2.4 | 2.4 | 1.6 | | | | | | | | | 2.4 | 0.8 | |
| | CET 304 ENVIRONMENTAL ENGINEERING | 1.50 | 1.5 | | 1.5 | | | 1.0 | 1.0 | | | | | 1.0 | 0.5 | |
| | CET 306 DESIGN OF HYDRAULIC STRUCTURES | 2.40 | 2.4 | 2.4 | 2.4 | | | 0.8 | 0.8 | | | 2.4 | | 1.6 | 0.8 | |
| | CET 352 ADVANCED CONCRETE TECHNOLOGY | 2.40 | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 | 1.6 | | | | | 2.4 | 1.6 | |
| | HUT 300 INDUSTRIAL ECONOMICS AND FOREIGN TRADE MANAGEMENT | 2.40 | 1.6 | 1.6 | 0.8 | | 1.6 | 1.6 | 2.4 | | | 2.4 | | 1.6 | 1.6 | |
| | CET 308 COMPREHENSIVE COURSE WORK | 3.00 | 3.0 | 2.0 | 1.0 | | 1.0 | 2.0 | | | | 3.0 | | | | |
| | CEL332 TRANSPORTATION ENGINEERING LAB | 3.00 | 3.0 | | | 2.0 | | | | 1.0 | 2.0 | | | 2.0 | 1.0 | 2.0 |
| S7 | CE334 CIVIL, ENGINEERING SOFTWARE LAB | 2.80 | 2.8 | 1.9 | 1.9 | 1.9 | 0.9 | 2.8 | | | 1.9 | 1.9 | | 1.9 | 1.9 | 0.9 |
| | CET401 DESIGN OF STEEL STRUCTURES | 1.00 | 1.0 | 1.0 | 1.0 | | | | | | | | | 1.0 | 0.3 | |
| | CET415 ENVIRONMENTAL IMPACT ASSESSMENT | 3.00 | 3.0 | 3.0 | 3.0 | 1.0 | 1.0 | 2.0 | | | | | | 2.0 | 2.0 | |
| | MCN401 INDUSTRIAL SAFETY ENGINEERING | 1.00 | 0.7 | | | 1.0 | 0.7 | 0.7 | 1.0 | 1.0 | | 1.0 | | | 0.3 | |
| | CEL411 ENVIRONMENTAL ENGG LAB | 1.80 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | | 0.6 | 0.6 | |
| | CEQ413 SEMINAR | 1.60 | 1.6 | 1.6 | 1.6 | 0.5 | | 1.6 | 1.6 | | | | | 1.6 | 0.5 | |
| | CED415 PROJECT PHASE I | 3.00 | 3.0 | 3.0 | 2.0 | 3.0 | 3.0 | 2.0 | 1.0 | 2.0 | | 3.0 | | 3.0 | 1.0 | |
| S8 | CET 402 QUANTITY SURVEYING & VALUATION | 2.60 | 1.7 | 2.6 | 2.6 | 0.9 | 1.7 | 2.6 | 2.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | |
| | CET 464 PROGRAM ELECTIVE III AIRQUALITY MANAGEMENT | 1.80 | 1.8 | 1.2 | | | | | | | | | | 0.6 | | |




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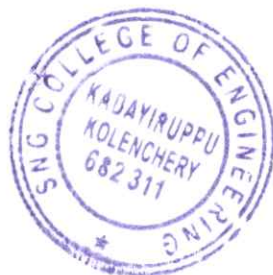
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|--|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| CET 456 PROGRAM ELECTIVE IV REPAIR AND REHABILITATION OF BUILDINGS | 1.60 | 1.6 | | | | | 1.6 | 1.1 | | | | | | 1.1 | |
| CET 438 PROGRAM ELECTIVE V AIRPORT, SEAPORT AND HARBOUR ENGINEERING | 1.00 | 1.0 | 0.7 | 1.0 | 0.7 | 1.0 | 0.7 | 0.7 | | | | | | 0.7 | 0.3 |
| CED 416 PROJECT PHASE II | 1.00 | 1.0 | 1.0 | 1.0 | 0.3 | | 0.7 | 0.7 | 0.7 | 0.3 | 0.7 | | 0.7 | 0.7 | |
| AVERAGE PO (DIRECT) | | 1.9 | 1.7 | 1.5 | 1.2 | 1.5 | 1.4 | 1.4 | 1.3 | 1.5 | 1.6 | 1.5 | 1.3 | 1.2 | 1.0 |

| Indirect POs/PSOs Attainment of batch 19-23 | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | |
| Survey | | | | | | | | | | | | | | | |
| Graduate Survey | 2.7 | 2.7 | 2.5 | 2.4 | 2.7 | 2.6 | 2.5 | 2.9 | 2.7 | 2.4 | 2.8 | 2.6 | 2.5 | 2.6 | |
| Alumni Survey | 2.7 | 2.6 | 2.5 | 2.6 | 2.7 | 2.6 | 2.5 | 2.7 | 2.7 | 2.5 | 2.8 | 2.6 | 2.5 | 2.6 | |
| Employer Survey | 2.6 | 2.5 | 2.6 | 2.3 | 2.7 | 2.5 | 2.5 | 2.8 | 2.7 | 2.3 | 2.8 | 2.5 | 2.5 | 2.5 | |
| Indirect Attainment | 2.7 | 2.7 | 2.5 | 2.4 | 2.7 | 2.6 | 2.5 | 2.9 | 2.7 | 2.4 | 2.8 | 2.6 | 2.5 | 2.6 | |
| PO Attainment ((80% direct+ 20% indirect) | 2.00 | 2.00 | 2.00 | 1.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | |

Target is set as 2. PO4, PSO1 and PSO2 are not attained. Remedial measures are planned.



A. Arose
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