



MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

363, Arcot Road, Kodambakkam, Chennai – 24
Approved by AICTE & Affiliated to Anna University
email Id: principal@mssec.edu.in
Website : www.mssec.edu.in

2.6.2 Attainment of Program outcomes and course outcomes are evaluated by the institution

- The course outcomes are evaluated using Direct and Indirect assessment tools.
- The Direct assessment tools include internal assessment tests, Assignment/Slip tests, End semester examination.
- The Course survey, received from all the students for all the courses, are taken as indirect assessment tool.
- The course outcome attainment is used in the evaluation of direct attainment of Program outcome.
- The Student exit survey, Alumni Survey is used as indirect assessment tools to compute attainment of Program outcomes.
- The assessment tools and the procedure to evaluate Course outcomes and Program outcomes are done as follows.

| Internal Assessment Test - 1 | | Internal Assessment Test - 2 | | | | Internal Assessment Test - 3 | | | |
|-------------------------------------|--------------------------|--|--------------------------|--------------|--------------------------|------------------------------|--------------------------|--------------|--------------------------|
| (100% of unit 1)+ (100% of unit2) | | Portions Covered For The Exam (100% of unit 3)+ (100 % of unit 4) | | | | (100% of unit 5) | | | |
| CO1-50% CO2-50% | | Mark Allocation CO3-50% CO4-50% | | | | CO5-100% | | | |
| CO1(50Marks) | | CO2(50Marks) | | CO3(50Marks) | | CO4(50Marks) | | CO5(50Marks) | |
| IAT1 | Assignment/ Slip Test | IAT1 | Assignment/ Slip Test | IAT2 | Assignment/ Slip Test | IAT2 | Assignment/ Slip Test | IAT3 | Assignment/ Slip Test |
| 30 Marks | 20 Marks | 30 Marks | 20 Marks | 30 Marks | 20 Marks | 30 Marks | 20 Marks | 30 Marks | 20 Marks |

COMPUTATION OF CO ATTAINMENT

Direct CO Attainment = 20% of IAT attainment + 10% of MCQ attainment + 70% of University attainment

Overall CO Attainment = 80% of Direct attainment + 20% of Indirect attainment.

COMPUTATION OF PO/PSO ATTAINMENT

Direct PO Attainment = (PO Average * CO Attainment) / Maximum level of attainment (3)

Indirect PO Attainment = 70% of Student Exit Survey + 30% of Alumni survey

Overall PO Attainment= 80% of Direct attainment + 20% of Indirect attainment.

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Record the attainment of Course Outcomes of all courses with respect to set attainment levels

- The set target value is fixed as a standard of 70 marks for all the theory and laboratory courses.
- Attainment Level 1 (Slight): 50% students scoring set attainment level in internal assessment test, multiple choice question test and university examination.
- Attainment Level 2 (Moderate) : 60% students scoring set attainment level in internal assessment test, multiple choice question test and university examination.
- Attainment Level 3 (Substantial): 70% students scoring set attainment level in internal assessment test, multiple choice question test and university examination.
- *Attainment is measured in terms of actual percentage of students getting target marks.

List of Assessment Tools / Processes

| Theory Courses | Practical Courses |
|---|--|
| Direct Assessment Tools/Processes | Direct Assessment tools/Processes |
| Internal Assessment test / unit test | Experiments Evaluation Model Examination |
| Assignment / Slip test | Design & Fabrication Project/Project Work |
| Multiple Choice Question Test | Project Reviews |
| End semester examination | End semester Viva Voce Examination |
| Indirect Assessment Tools/Processes | Indirect Assessment Tools/Processes |
| Course Outcome Survey | Course Outcome Survey |
| Indirect Assessment Tools/Processes for PO, PSO Attainment | |
| Student Exit Survey | |
| Alumni Survey | |
| Stake holders Survey | |

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DEPARTMENT OF CIVIL ENGINEERING

COURSE OUTCOME ATTAINMENT

BATCH 2019-2023

| SEMESTER | COURSE NAME | COURSE CODE | ACADEMIC YEAR | DIRECT ATTAINMENT | | | | | | INDIRECT ATTAINMENT | OVERALL ATTAINMENT = (80%DIRECT +20%INDIRECT) | |
|----------|--|-------------|---------------|--------------------------------------|------------------|--------------------------|------------------|-------------------|------------------|---------------------|---|---|
| | | | | INTERNAL ASSESSMENT(IAT+ ASSIGNMENT) | | MULTIPLE CHOICE QUESTION | | UNIVERSITY RESULT | | | | TOTAL ATTAINMENT = (20%IA+10% MCQ +70%UR) |
| | | | | SET TARGET | ATTAINMENT LEVEL | SET TARGET | ATTAINMENT LEVEL | SET TARGET | ATTAINMENT LEVEL | COURSE SURVEY | | |
| 1 | Communicative English | C101 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.40 | 2.88 |
| | Engineering Mathematics – I | C102 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.30 | 2.86 |
| | Engineering Physics | C103 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 1 | 1.60 | 2.20 | 1.72 |
| | Engineering Chemistry | C104 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.40 | 2.88 |
| | Problem Solving and Python Programming | C105 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 0 | 0.90 | 2.60 | 1.24 |

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|----|---|------|---------|----|---|----|---|----|---|------|------|------|
| | Engineering Graphics | C106 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.40 | 2.88 |
| | Problem Solving and Python Programming Laboratory | C107 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.20 | 2.84 |
| | Physics and Chemistry Laboratory | C108 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.20 | 2.84 |
| II | Technical English | C109 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.20 | 2.84 |
| | Engineering Mathematics – II | C110 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.20 | 2.84 |
| | Physics For Civil Engineering | C111 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.40 | 2.88 |
| | Basic Electrical and Electronics Engineering | C112 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.40 | 2.88 |
| | Environmental Science and Engineering | C113 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.30 | 2.86 |
| | Engineering Mechanics | C114 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.10 | 2.82 |



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|-----|---|------|---------|----|---|----|---|----|---|------|------|------|
| | Engineering Practices Laboratory | C115 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3.00 | 2.40 | 2.88 |
| | Computer Aided Building Drawing | C116 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.10 | 2.82 |
| III | Transforms and Partial Differential Equations | C201 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.57 | 2.91 |
| | Strength of Materials I | C202 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.39 | 2.88 |
| | Fluid Mechanics | C203 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.58 | 2.91 |
| | Surveying | C204 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.51 | 2.90 |
| | Construction Materials | C205 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.57 | 2.91 |
| | Engineering Geology | C206 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.47 | 2.89 |
| | Construction Materials Laboratory | C207 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.48 | 2.96 |



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| | Surveying Laboratory | C208 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.55 | 2.97 |
| | Interpersonal Skills / Listening and Speaking | C209 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.55 | 2.97 |
| IV | Numerical Methods | C210 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.79 | 2.96 |
| | Construction Techniques and Practices | C211 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.68 | 2.94 |
| | Strength of Materials II | C212 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.73 | 2.95 |
| | Applied Hydraulic Engineering | C213 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.58 | 2.92 |
| | Concrete Technology | C214 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.63 | 2.93 |
| | Soil Mechanics | C215 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.63 | 2.93 |
| | Strength of Materials Laboratory | C216 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.63 | 2.93 |



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| | Hydraulic Engineering Laboratory | C217 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.66 | 2.93 |
| | Advanced Reading and Writing | C218 | 2019-20 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.66 | 2.93 |
| V | Design of Reinforced Cement Concrete Elements | C301 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.64 | 2.37 |
| | Structural Analysis I | C302 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.65 | 2.37 |
| | Water Supply Engineering | C303 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.68 | 2.38 |
| | Foundation Engineering | C304 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.59 | 2.36 |
| | Disaster Management | C305 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.63 | 2.37 |
| | Environment and Agriculture | C306 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.63 | 2.37 |
| | Soil Mechanics Laboratory | C307 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.56 | 2.91 |



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|----|---|------|---------|----|---|----|---|----|---|---|------|------|
| | Water and Waste Water Analysis Laboratory | C308 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.68 | 2.93 |
| | Survey Camp | C309 | 2020-21 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.69 | 2.94 |
| VI | Design of Steel Structural Elements | C310 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.56 | 2.91 |
| | Structural Analysis II | C311 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.68 | 2.94 |
| | Irrigation Engineering | C312 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.78 | 2.96 |
| | Highway Engineering | C313 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.64 | 2.93 |
| | Wastewater Engineering | C314 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.65 | 2.93 |
| | Air Pollution and Control Engineering | C315 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.65 | 2.93 |
| | Highway Engineering Laboratory | C316 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.71 | 2.94 |



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|-----|---|------|---------|----|---|----|---|----|---|---|------|------|
| | Irrigation and Environmental Engineering Drawing | C317 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.48 | 2.90 |
| | Professional Communication | C318 | 2021-22 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.69 | 2.94 |
| VII | Estimation, Costing and Valuation Engineering | C401 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.62 | 2.91 |
| | Railways, Airports, Docks and Harbour Engineering | C402 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.49 | 2.90 |
| | Structural Design and Drawing | C403 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.54 | 2.91 |
| | Municipal Solid Waste | C404 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.44 | 2.89 |
| | Design of green building | C405 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.35 | 2.87 |
| | Creative and Innovative Project | C406 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.60 | 2.92 |



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| | Industrial Training | C407 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.52 | 2.90 |
| VIII | Professional Ethics in Engineering | C408 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.58 | 2.92 |
| | Prefabricated Structures | C409 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.54 | 2.91 |
| | Project Work | C410 | 2022-23 | 70 | 3 | 70 | 3 | 60 | 3 | 3 | 2.66 | 2.93 |

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PROGRAM OUTCOME ATTAINMENT

BATCH 2019-23

| SEMESTER | COURSE | PO 1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|----------|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| I | C101 | - | 1.92 | - | 1.44 | - | - | 1.92 | - | 1.92 | 2.50 | 2.88 | 2.56 |
| | C102 | 2.86 | 2.48 | 2.48 | - | - | - | - | - | - | - | - | - |
| | C103 | 0.57 | 0.57 | - | - | - | - | - | - | - | - | - | - |
| | C104 | 1.73 | 1.73 | 1.15 | - | - | - | - | - | - | - | - | - |
| | C105 | 0.83 | 0.83 | 1.07 | 0.99 | 0.83 | - | - | - | - | - | 0.83 | 0.83 |
| | C106 | 2.88 | 1.34 | 0.96 | 0.96 | - | 1.92 | 1.92 | 1.92 | - | - | - | 0.96 |
| | C107 | 1.89 | 0.95 | 2.84 | 0.95 | 0.95 | - | - | - | - | - | - | - |
| | C108 | 2.84 | 1.26 | 1.26 | - | - | - | - | - | 2.84 | 2.84 | 2.84 | - |
| II | C109 | - | 1.89 | - | 1.42 | - | - | 1.89 | - | 1.89 | 2.46 | 2.84 | 2.46 |
| | C110 | - | 2.84 | 2.46 | - | - | - | - | - | - | - | - | - |
| | C111 | 1.92 | 0.96 | 1.92 | - | - | - | - | - | - | - | - | - |
| | C112 | 2.69 | 1.34 | 2.11 | 1.60 | 1.68 | 1.92 | - | - | - | - | 0.96 | 0.96 |
| | C113 | 1.72 | 1.72 | 1.33 | - | - | - | 2.10 | 2.10 | 0.95 | - | - | - |
| | C114 | 1.88 | 1.88 | 0.94 | - | - | - | - | - | 0.94 | - | - | 0.94 |
| | C115 | 1.92 | - | 1.92 | - | 0.96 | - | - | - | - | 1.92 | - | - |
| | C116 | 1.88 | - | 1.88 | - | 1.88 | - | - | - | - | 1.88 | - | 0.94 |
| III | C201 | 1.94 | 0.97 | 0.97 | - | - | - | - | - | - | - | - | - |
| | C202 | 2.88 | 2.69 | 1.92 | 0.96 | 0.96 | 0.96 | - | 0.96 | 0.96 | 0.96 | - | 0.96 |



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| | C203 | 2.91 | 2.91 | 1.94 | 1.94 | - | 1.94 | 0.97 | 0.97 | 0.97 | 0.97 | - | 0.97 |
| | C204 | 2.90 | 2.32 | 1.16 | 2.32 | 1.74 | 0.97 | 0.97 | 0.97 | 1.55 | 0.97 | 0.97 | 2.90 |
| | C205 | 2.91 | 1.16 | 1.36 | 0.97 | 1.75 | 2.91 | 2.91 | 1.36 | 1.36 | 0.97 | 1.94 | 1.94 |
| | C206 | 2.89 | - | 1.93 | 0.96 | 0.96 | 0.96 | 1.16 | - | 0.96 | 0.96 | - | 2.89 |
| | C207 | 2.96 | 1.97 | 1.97 | 0.99 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 0.99 | 2.96 |
| | C208 | 2.97 | 2.38 | 1.98 | 2.38 | 1.39 | 0.99 | - | 0.99 | 1.58 | 0.99 | 0.99 | 2.38 |
| | C209 | 2.97 | 2.57 | 1.78 | 1.78 | - | - | - | - | - | - | - | 0.99 |
| IV | C210 | 2.96 | 2.57 | 1.78 | 1.78 | - | - | - | - | - | - | - | 0.99 |
| | C211 | 2.35 | 1.37 | 1.76 | 1.57 | 2.94 | 1.96 | - | 2.35 | 2.94 | 2.94 | 1.96 | 1.96 |
| | C212 | 2.95 | 2.95 | 1.97 | 0.98 | 0.98 | 0.98 | - | 0.98 | 0.98 | 0.98 | - | 0.98 |
| | C213 | 2.53 | 1.36 | 2.14 | 0.97 | 0.97 | 0.97 | - | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| | C214 | 2.93 | 1.95 | 2.93 | 1.95 | 0.98 | 0.98 | - | 0.98 | 0.98 | 0.98 | - | 0.98 |
| | C215 | 2.93 | 2.93 | 1.95 | 1.76 | 0.98 | 0.98 | - | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| | C216 | 2.93 | 2.93 | 1.95 | 1.95 | 0.98 | 1.95 | - | 0.98 | 1.95 | 0.98 | 0.98 | 2.93 |
| | C217 | 2.93 | 1.95 | 1.95 | 0.98 | 2.93 | 0.98 | - | 2.93 | 2.93 | 2.93 | 0.98 | 2.93 |
| | C218 | - | - | - | - | - | - | - | - | 2.93 | 2.93 | 0.98 | 1.95 |
| V | C301 | 2.37 | 2.37 | 2.37 | 2.37 | 1.58 | 0.79 | - | 0.79 | 0.79 | 0.79 | 0.79 | 2.37 |
| | C302 | 2.37 | 2.37 | 0.79 | 1.58 | 0.79 | 0.79 | - | 0.79 | 0.79 | 0.79 | - | 0.79 |
| | C303 | 1.43 | 1.59 | 1.43 | 1.43 | 0.79 | 0.79 | - | 0.79 | 0.79 | 0.79 | - | 0.79 |
| | C304 | 0.79 | 1.57 | 2.36 | 0.79 | 0.79 | 0.79 | - | 0.79 | 0.79 | 0.79 | - | 0.79 |
| | C305 | 2.37 | 0.79 | 1.58 | 1.58 | 1.58 | 2.37 | - | 0.79 | 2.05 | 0.79 | 2.05 | 2.37 |
| | C306 | 2.05 | 1.11 | 1.74 | 0.79 | 0.79 | 0.79 | - | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 |
| | C307 | 2.91 | 1.94 | 0.97 | 1.94 | 2.52 | 0.97 | - | 0.97 | 2.91 | 0.97 | 0.97 | 0.97 |
| | C308 | 2.93 | 0.98 | 1.95 | 0.98 | 2.93 | 1.95 | - | 0.98 | 0.98 | 0.98 | - | 0.98 |



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|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | C309 | 2.94 | 1.96 | 1.96 | 0.98 | 2.94 | 2.94 | - | 2.94 | 2.94 | 2.94 | 0.98 | 2.94 |
| VI | C310 | 2.91 | 1.94 | 1.55 | 1.75 | 2.72 | - | - | 2.52 | 1.94 | 2.91 | - | 2.91 |
| | C311 | 2.94 | 2.94 | 0.98 | 1.96 | 0.98 | 0.98 | - | 0.98 | 0.98 | 0.98 | - | 0.98 |
| | C312 | 2.96 | 2.96 | 1.97 | 0.99 | 0.99 | 1.97 | - | 0.99 | 0.99 | 0.99 | - | 0.99 |
| | C313 | 2.93 | 1.17 | 0.98 | 0.98 | 0.20 | 0.98 | - | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| | C314 | 2.93 | 2.93 | 1.95 | 1.95 | 0.98 | 1.95 | - | 1.37 | - | 0.98 | 0.98 | 1.95 |
| | C315 | 1.76 | 1.56 | 1.56 | 1.47 | 1.95 | 1.17 | - | 0.98 | 0.98 | 0.98 | - | 0.98 |
| | C316 | 2.94 | 2.94 | 1.96 | 1.96 | 0.98 | 1.96 | - | 2.94 | 1.96 | 1.96 | 0.98 | 2.94 |
| | C317 | 2.90 | 2.90 | 2.90 | 1.93 | 2.90 | 1.93 | - | - | 0.97 | 1.93 | 0.97 | 2.90 |
| | C318 | - | - | - | 1.96 | 1.96 | 1.96 | 0.98 | - | 1.96 | 2.94 | 1.96 | 0.00 |
| VII | C401 | 2.91 | 1.55 | 1.16 | 1.70 | 2.33 | 2.13 | 0.97 | - | 1.94 | 2.91 | 2.91 | 2.91 |
| | C402 | 2.71 | 1.74 | 2.32 | 1.93 | 1.16 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 1.93 |
| | C403 | 2.91 | 2.91 | 2.91 | 1.94 | 2.91 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | - | 2.91 |
| | C404 | 0.96 | 1.93 | 0.96 | 0.96 | 1.93 | 2.89 | 2.89 | 2.89 | 1.93 | 1.93 | 1.93 | 1.93 |
| | C405 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 1.91 | 2.87 | - | 1.91 | 0.96 | 0.96 | 0.96 |
| | C406 | 2.92 | 2.92 | 2.92 | 2.92 | 1.95 | 0.97 | 1.95 | 0.97 | 2.92 | 1.95 | 0.97 | 1.95 |
| | C407 | 2.90 | 0.97 | 0.97 | 1.93 | 2.90 | 2.90 | 1.93 | 2.90 | 1.93 | 1.93 | 1.93 | 2.90 |
| VIII | C408 | - | - | - | - | - | 2.14 | 1.56 | 2.92 | - | - | - | 1.95 |
| | C409 | 1.94 | 2.91 | 0.97 | 1.94 | 0.97 | 0.97 | - | 0.97 | 0.97 | 0.97 | - | 0.97 |
| | C410 | 2.93 | 2.93 | 2.93 | 2.93 | 1.95 | 0.98 | 1.95 | 0.98 | 2.93 | 1.95 | 0.98 | 1.95 |
| Direct Att | | 2.45 | 1.96 | 1.77 | 1.55 | 1.60 | 1.54 | 1.78 | 1.48 | 1.60 | 1.55 | 1.33 | 1.69 |
| Indirect Att | | | | | | | | | | | | | |
| PO Att | | 1.96 | 1.56 | 1.41 | 1.24 | 1.28 | 1.23 | 1.42 | 1.18 | 1.28 | 1.24 | 1.07 | 1.35 |



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Website: www.msec.edu.in

DEPARTMENT OF CIVIL ENGINEERING

PROGRAM SPECIFIC OUTCOME

BATCH 2019-23

| SEMESTER | COURSE | PSO 1 | PSO2 | PSO3 |
|----------|--------|-------|------|------|
| I | C101 | 1.92 | 1.92 | - |
| | C102 | 0.95 | - | - |
| | C103 | 0.57 | - | - |
| | C104 | - | - | - |
| | C105 | 0.83 | 0.41 | - |
| | C106 | 2.88 | 1.34 | 0.96 |
| | C107 | 2.84 | - | - |
| | C108 | - | - | - |
| II | C109 | 1.89 | 1.89 | - |
| | C110 | 0.95 | - | - |
| | C111 | 0.96 | - | - |
| | C112 | 1.34 | 1.15 | 0.96 |
| | C113 | - | - | - |
| | C114 | 2.82 | - | - |
| | C115 | 2.88 | - | - |
| | C116 | 1.41 | - | 0.94 |
| III | C201 | 0.97 | - | - |
| | C202 | 2.88 | - | - |
| | C203 | 2.91 | 1.94 | 0.97 |
| | C204 | 1.93 | 0.97 | 1.93 |



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| | | | | |
|----|------|------|------|------|
| | C205 | 2.91 | 1.94 | 1.94 |
| | C206 | 2.12 | - | 0.96 |
| | C207 | 2.96 | 0.99 | 0.99 |
| | C208 | 1.98 | 0.99 | 1.98 |
| | C209 | - | - | - |
| IV | C210 | 2.76 | - | - |
| | C211 | 1.18 | 1.76 | 1.30 |
| | C212 | 2.95 | 1.18 | 1.77 |
| | C213 | 2.92 | 0.97 | 0.97 |
| | C214 | 1.95 | 1.47 | 1.95 |
| | C215 | 2.93 | 0.98 | 0.98 |
| | C216 | 2.93 | 1.95 | 0.98 |
| | C217 | 2.93 | 0.98 | 0.98 |
| | C218 | - | - | 1.95 |
| V | C301 | 2.37 | 0.79 | 0.79 |
| | C302 | 2.37 | - | - |
| | C303 | - | 1.27 | - |
| | C304 | 2.36 | 0.79 | 1.57 |
| | C305 | 2.37 | - | 2.37 |
| | C306 | 2.37 | 0.79 | 0.79 |
| | C307 | 1.94 | 0.97 | 0.97 |
| | C308 | - | 1.95 | 1.95 |
| | C309 | 2.94 | 0.98 | 0.98 |
| VI | C310 | 2.91 | 1.55 | 1.94 |



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| | | | | |
|---------------|------|------|------|------|
| | C311 | 2.94 | - | - |
| | C312 | 2.96 | 1.97 | 0.99 |
| | C313 | 2.93 | 0.98 | 1.17 |
| | C314 | 0.98 | 1.95 | 0.98 |
| | C315 | 0.98 | 1.76 | 0.98 |
| | C316 | 2.94 | 1.96 | 1.96 |
| | C317 | 2.90 | 1.93 | 1.93 |
| | C318 | - | - | - |
| VII | C401 | 2.91 | 1.70 | 1.94 |
| | C402 | 2.90 | 0.97 | 1.16 |
| | C403 | 2.91 | 1.94 | 0.97 |
| | C404 | 0.96 | 2.89 | 1.93 |
| | C405 | 2.87 | 2.87 | 1.91 |
| | C406 | 2.92 | 1.95 | 1.95 |
| | C407 | 2.90 | 1.93 | 2.90 |
| VIII | C408 | - | - | - |
| | C409 | 2.91 | 0.97 | 0.97 |
| | C410 | 2.93 | 1.95 | 1.95 |
| direct att | | 2.30 | 1.49 | 1.44 |
| Indirect Att | | 2.4 | 2.56 | 2.49 |
| PO Attainment | | 2.32 | 1.71 | 1.65 |



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DEPARTMENT OF CIVIL ENGINEERING

COURSE OUTCOME ATTAINMENT CALCULATION

ACADEMIC YEAR 2022-23

PRINCIPAL
MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
363, ARCOT ROAD, KODAMBAKKAM,
CHENNAI-600 024



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DEPARTMENT OF CIVIL ENGINEERING

Semester : VII

Class: IV Yr

Staff Handled: Mrs.G.Anbu Neema

Course Name: Structural Design and Drawing

Course Code: CE8703

NBA Course Code: C403

| S.No | Reg No | DIRECT ATTAINMENT | | | | | | | | | | | | | | | | | University Assessment | |
|------|---------------|---------------------|---------------|------------|-----------|---------------|------------|-----------|---------------|------------|-----------|---------------|------------|-----------|---------------|------------|----------------|---------------|-----------------------|--|
| | | Interval Attainment | | | | | | | | | | | | | | | MCQ Test (20%) | GPA | | |
| | | C001 | | C001 (20%) | C002 | | C002 (20%) | C003 | | C003 (20%) | C004 | | C004 (20%) | C005 | | C005 (20%) | | | | |
| | | ET-1 (10) | Sp/Trn-1 (10) | | ET-1 (10) | Sp/Trn-2 (10) | | ET-1 (10) | Sp/Trn-2 (10) | | ET-1 (10) | Sp/Trn-2 (10) | | ET-1 (10) | Sp/Trn-2 (10) | | ET-1 (10) | Sp/Trn-2 (10) | | |
| 1 | 3115 19103001 | 27 | 19 | 46 | 29 | 20 | 49 | 29 | 18 | 47 | 29 | 19 | 48 | 30 | 20 | 50 | 94 | B+ | 7 | |
| 2 | 3115 19103002 | 28 | 20 | 48 | 23 | 18 | 41 | 25 | 17 | 42 | 27 | 18 | 45 | 27 | 19 | 46 | 92 | B+ | 7 | |
| 3 | 3115 19103003 | 29 | 20 | 49 | 30 | 20 | 50 | 30 | 20 | 50 | 30 | 19 | 49 | 30 | 20 | 50 | 96 | B+ | 7 | |
| 4 | 3115 19103004 | 28 | 18 | 46 | 28 | 19 | 47 | 25 | 19 | 44 | 27 | 20 | 47 | 29 | 19 | 48 | 90 | A | 8 | |
| 5 | 3115 19103005 | 29 | 20 | 49 | 30 | 19 | 49 | 28 | 20 | 48 | 27 | 18 | 45 | 30 | 19 | 49 | 92 | A+ | 9 | |
| 6 | 3115 19103006 | 30 | 20 | 50 | 29 | 20 | 49 | 30 | 19 | 49 | 29 | 20 | 49 | 30 | 20 | 50 | 98 | A | 8 | |
| 7 | 3115 19103007 | 29 | 20 | 49 | 28 | 19 | 47 | 27 | 20 | 47 | 29 | 20 | 49 | 30 | 20 | 50 | 96 | A | 8 | |
| 8 | 3115 19103008 | 28 | 19 | 47 | 22 | 18 | 40 | 30 | 18 | 48 | 22 | 19 | 41 | 27 | 19 | 46 | 92 | B | 6 | |
| 9 | 3115 19103009 | 28 | 18 | 46 | 29 | 19 | 48 | 30 | 19 | 49 | 30 | 20 | 50 | 30 | 20 | 50 | 96 | B | 6 | |
| 10 | 3115 19103010 | 30 | 19 | 49 | 30 | 20 | 50 | 29 | 20 | 49 | 27 | 19 | 46 | 30 | 19 | 49 | 94 | B+ | 7 | |
| 11 | 3115 19103011 | 30 | 20 | 50 | 29 | 19 | 48 | 30 | 20 | 50 | 30 | 18 | 48 | 30 | 20 | 50 | 98 | B+ | 7 | |
| 12 | 3115 19103012 | 30 | 20 | 50 | 29 | 20 | 49 | 30 | 20 | 50 | 30 | 19 | 49 | 30 | 20 | 50 | 90 | A | 8 | |
| 13 | 3115 19103013 | 24 | 18 | 42 | 28 | 19 | 47 | 28 | 20 | 48 | 22 | 17 | 39 | 26 | 20 | 46 | 92 | B | 6 | |
| 14 | 3115 19103014 | 28 | 18 | 46 | 25 | 18 | 43 | 27 | 19 | 46 | 26 | 17 | 43 | 27 | 19 | 46 | 90 | A+ | 9 | |
| 15 | 3115 19103015 | 27 | 18 | 45 | 29 | 20 | 49 | 26 | 19 | 45 | 27 | 20 | 47 | 30 | 20 | 50 | 98 | A | 8 | |
| 16 | 3115 19103016 | 27 | 19 | 46 | 28 | 19 | 47 | 28 | 20 | 48 | 23 | 18 | 41 | 28 | 18 | 46 | 94 | B+ | 7 | |
| 17 | 3115 19103017 | 29 | 19 | 48 | 30 | 19 | 49 | 30 | 18 | 48 | 29 | 20 | 49 | 29 | 18 | 47 | 92 | B | 6 | |
| 18 | 3115 19103018 | 24 | 17 | 41 | 29 | 19 | 48 | 28 | 20 | 48 | 26 | 17 | 43 | 27 | 19 | 46 | 90 | A | 8 | |
| 19 | 3115 19103019 | 28 | 20 | 48 | 22 | 17 | 39 | 26 | 20 | 46 | 23 | 18 | 41 | 28 | 18 | 46 | 92 | U | 0 | |
| 20 | 3115 19103020 | 29 | 20 | 49 | 30 | 19 | 49 | 29 | 20 | 49 | 30 | 19 | 49 | 30 | 19 | 49 | 96 | B | 6 | |
| 21 | 3115 19103021 | 30 | 20 | 50 | 28 | 20 | 48 | 29 | 19 | 48 | 27 | 20 | 47 | 29 | 20 | 49 | 94 | B+ | 7 | |
| 22 | 3115 19103022 | 26 | 18 | 44 | 30 | 20 | 50 | 29 | 20 | 49 | 25 | 20 | 45 | 30 | 20 | 50 | 98 | A+ | 9 | |
| 23 | 3115 19103023 | 24 | 18 | 42 | 29 | 20 | 49 | 29 | 19 | 48 | 30 | 18 | 48 | 30 | 20 | 50 | 90 | A+ | 9 | |
| 24 | 3115 19103024 | 30 | 19 | 49 | 30 | 20 | 50 | 29 | 18 | 47 | 30 | 19 | 49 | 30 | 20 | 50 | 92 | A | 8 | |
| 25 | 3115 19103025 | 29 | 19 | 48 | 23 | 17 | 40 | 24 | 20 | 44 | 27 | 20 | 47 | 27 | 19 | 46 | 96 | U | 0 | |
| 26 | 3115 19103026 | 28 | 19 | 47 | 22 | 18 | 40 | 28 | 18 | 46 | 24 | 19 | 43 | 30 | 20 | 50 | 94 | B | 6 | |
| 27 | 3115 19103027 | 27 | 20 | 47 | 30 | 19 | 49 | 29 | 20 | 49 | 29 | 18 | 47 | 30 | 20 | 50 | 98 | B+ | 7 | |
| 28 | 3115 19103028 | 28 | 20 | 48 | 21 | 18 | 39 | 25 | 19 | 44 | 24 | 19 | 43 | 27 | 19 | 46 | 92 | U | 0 | |
| 29 | 3115 19193029 | 29 | 20 | 49 | 27 | 18 | 45 | 24 | 19 | 43 | 29 | 20 | 49 | 30 | 20 | 50 | 90 | A | 8 | |
| 30 | 3115 19103030 | 30 | 20 | 50 | 30 | 19 | 49 | 29 | 20 | 49 | 30 | 20 | 50 | 30 | 20 | 50 | 92 | A | 8 | |
| 31 | 3115 19103031 | 29 | 20 | 49 | 25 | 17 | 42 | 28 | 19 | 47 | 22 | 19 | 41 | 29 | 20 | 49 | 90 | A | 8 | |
| 32 | 3115 19103032 | 28 | 18 | 46 | 23 | 18 | 41 | 26 | 19 | 45 | 27 | 17 | 44 | 28 | 18 | 46 | 96 | B | 6 | |
| 33 | 3115 19103033 | 27 | 18 | 45 | 30 | 19 | 49 | 25 | 20 | 45 | 30 | 19 | 49 | 27 | 19 | 46 | 94 | B+ | 7 | |
| 34 | 3115 19103034 | 29 | 19 | 48 | 24 | 17 | 41 | 26 | 19 | 45 | 26 | 20 | 46 | 28 | 19 | 47 | 94 | B | 6 | |
| 35 | 3115 19103035 | 29 | 19 | 48 | 26 | 18 | 44 | 28 | 20 | 48 | 28 | 18 | 46 | 29 | 19 | 48 | 98 | B+ | 7 | |
| 36 | 3115 19103036 | 29 | 20 | 49 | 30 | 20 | 50 | 30 | 20 | 50 | 29 | 20 | 49 | 30 | 20 | 50 | 96 | A | 8 | |
| 37 | 3115 19103037 | 29 | 19 | 48 | 22 | 17 | 39 | 28 | 18 | 46 | 23 | 18 | 41 | 26 | 20 | 46 | 98 | B | 6 | |
| 38 | 311519103301 | 28 | 18 | 46 | 25 | 18 | 43 | 28 | 17 | 45 | 25 | 19 | 44 | 27 | 19 | 46 | 92 | B+ | 7 | |
| 40 | 311519103303 | 28 | 20 | 48 | 24 | 17 | 41 | 27 | 19 | 46 | 26 | 19 | 45 | 28 | 18 | 46 | 94 | B+ | 7 | |
| 41 | 311519103304 | 25 | 18 | 43 | 29 | 19 | 48 | 28 | 20 | 48 | 28 | 18 | 46 | 29 | 18 | 47 | 90 | A | 8 | |
| | Target (70%) | 21 | 14 | 35 | 21 | 14 | 35 | 21 | 14 | 35 | 21 | 14 | 35 | 21 | 14 | 35 | 70 | | 6 | |



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DEPARTMENT OF CIVIL ENGINEERING

| | | | | | | | | | | | | | | | |
|--|--|------|--|---|--|---|---|--|---|---|--|-----|-----|---|---|
| Attainment Level % = $\frac{1}{10} \times \frac{100}{100} = 1$ | | 3 | | 3 | | 3 | 3 | | 3 | 3 | | 3 | 3 | 3 | 3 |
| Average of Attainment Level | | 3 | | | | | | | | | | 3 | 3 | | |
| Attainment = 80% Internal, 20% University & 10% MCQ | | 0.6 | | | | | | | | | | 0.3 | 2.1 | | |
| Direct Attainment = Internal + University/MCQ | | 3 | | | | | | | | | | | | | |
| Indirect Attainment = Course Outcome survey | | 2.54 | | | | | | | | | | | | | |
| Overall Attainment = (80% Direct + 20% Indirect) | | 2.91 | | | | | | | | | | | | | |



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DEPARTMENT OF CIVIL ENGINEERING

INDIRECT SURVEY FOR PO ATTAINMENT

Student Exit Survey

| SL.N O | Reg no | po1 | po2 | po3 | po4 | po5 | po6 | po7 | po8 | po9 | po10 | po11 | po12 |
|-----------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 1 | 311519103001 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| 2 | 311519103002 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 311519103003 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 311519103004 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5 | 311519103005 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 311519103006 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| 7 | 311519103007 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 8 | 311519103008 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 9 | 311519103009 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 |
| 10 | 311519103010 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 11 | 311519103011 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| 12 | 311519103012 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| 13 | 311519103013 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 |
| 14 | 311519103014 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 15 | 311519103015 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 3 |



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| | | | | | | | | | | | | | |
|----|--------------|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 311519103016 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 17 | 311519103017 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 |
| 18 | 311519103018 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 19 | 311519103019 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 | 311519103020 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 |
| 21 | 311519103021 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 22 | 311519103022 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 |
| 23 | 311519103023 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 24 | 311519103024 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 25 | 311519103025 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 26 | 311519103026 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 27 | 311519103027 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |
| 28 | 311519103028 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 29 | 311519103029 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| 30 | 311519103030 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 |
| 31 | 311519103031 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 32 | 311519103032 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 |
| 33 | 311519103033 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 34 | 311519103034 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |



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| | | | | | | | | | | | | | |
|----|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 35 | 311519103035 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 36 | 311519103036 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 37 | 311519103037 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |
| 38 | 311519103301 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 3 |
| 39 | 311519103303 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 | 311519103304 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 |
| | AVERAGE | 2.63 | 2.48 | 2.62 | 2.50 | 2.43 | 2.33 | 2.45 | 2.31 | 2.48 | 2.43 | 2.45 | 2.40 |
| | 0.7*AVERAGE | 1.8 | 1.7 | 1.8 | 1.8 | 1.7 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 |

| SI.NO | Reg no | ALUMNI SURVEY 2022-23 | | | | | | | | | | | |
|-------|--------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | | po1 | po2 | po3 | po4 | po5 | po6 | po7 | po8 | po9 | po10 | po11 | po12 |
| 1 | 311517103008 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 311517103011 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3 | 311517103020 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 |
| 4 | 311517103021 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 |
| 5 | 311517103022 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |



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|-------------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6 | 311517103026 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| 7 | 311517103029 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 2 |
| 8 | 311517103030 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 9 | 311517103033 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| 10 | 311519103050 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 11 | 311517103307 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | AVERAGE | 2.6 | 2.3 | 2.6 | 2.5 | 2.4 | 2.5 | 2.3 | 2.4 | 2.6 | 2.5 | 2.5 | 2.6 |
| | 0.3*AVERAGE | 0.8 | 0.7 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| Indirect PO Attainment | | | | | | | | | | | | | |
| Exit Survey | | 1.8 | 1.7 | 1.8 | 1.8 | 1.7 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 |
| Alumni Survey | | 0.8 | 0.7 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| Indirect Attainment | | 2.6 | 2.4 | 2.6 | 2.5 | 2.4 | 2.4 | 2.4 | 2.3 | 2.5 | 2.4 | 2.5 | 2.5 |



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Email id: principal@msec.edu.in

Website: www.msec.edu.in

DEPARTMENT OF CIVIL ENGINEERING

INDIRECT SURVEY FOR PSO ATTAINMENT

Student Exit Survey

| SL.NO | Reg no | PSO1 | PSO2 | PSO3 |
|-------|--------------|------|------|------|
| 1 | 311519103001 | 3 | 3 | 3 |
| 2 | 311519103002 | 2 | 2 | 2 |
| 3 | 311519103003 | 3 | 3 | 3 |
| 4 | 311519103004 | 2 | 2 | 2 |
| 5 | 311519103005 | 2 | 2 | 2 |
| 6 | 311519103006 | 3 | 2 | 3 |
| 7 | 311519103007 | 2 | 2 | 2 |
| 8 | 311519103008 | 2 | 2 | 2 |
| 9 | 311519103009 | 2 | 2 | 2 |
| 10 | 311519103010 | 2 | 2 | 2 |
| 11 | 311519103011 | 2 | 3 | 2 |
| 12 | 311519103012 | 2 | 2 | 3 |
| 13 | 311519103013 | 3 | 3 | 2 |
| 14 | 311519103014 | 3 | 3 | 3 |
| 15 | 311519103015 | 2 | 2 | 2 |
| 16 | 311519103016 | 3 | 3 | 3 |
| 17 | 311519103017 | 2 | 2 | 2 |
| 18 | 311519103018 | 2 | 2 | 3 |
| 19 | 311519103019 | 2 | 2 | 2 |



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| | | | | |
|----|--------------|-----|-----|-----|
| 20 | 311519103020 | 3 | 2 | 2 |
| 21 | 311519103021 | 2 | 2 | 2 |
| 22 | 311519103022 | 3 | 3 | 3 |
| 23 | 311519103023 | 2 | 2 | 2 |
| 24 | 311519103024 | 3 | 3 | 2 |
| 25 | 311519103025 | 3 | 3 | 3 |
| 26 | 311519103026 | 2 | 2 | 2 |
| 27 | 311519103027 | 3 | 2 | 3 |
| 28 | 311519103028 | 2 | 2 | 2 |
| 29 | 311519103029 | 3 | 2 | 3 |
| 30 | 311519103030 | 3 | 3 | 3 |
| 31 | 311519103031 | 2 | 3 | 2 |
| 32 | 311519103032 | 3 | 2 | 3 |
| 33 | 311519103033 | 3 | 3 | 2 |
| 34 | 311519103034 | 3 | 3 | 3 |
| 35 | 311519103035 | 2 | | 2 |
| 36 | 311519103036 | 3 | 3 | 3 |
| 37 | 311519103037 | 3 | 3 | 3 |
| 38 | 311519103301 | 2 | 2 | 2 |
| 39 | 311519103303 | 3 | 3 | 3 |
| 40 | 311519103304 | 3 | 3 | 3 |
| | AVERAGE | 2.5 | 2.4 | 2.5 |
| | 0.7*AVERAGE | 1.8 | 1.7 | 1.7 |



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Website: www.msec.edu.in

DEPARTMENT OF CIVIL ENGINEERING

ALUMNI SURVEY 2022-23

| SI.NO | Reg no | PSO1 | PSO2 | PSO3 |
|-------|--------------|------|------|------|
| 1 | 311517103008 | 2 | 2 | 3 |
| 2 | 311517103011 | 3 | 3 | 3 |
| 3 | 311517103020 | 2 | 3 | 2 |
| 4 | 311517103021 | 3 | 3 | 2 |
| 5 | 311517103022 | 2 | 2 | 2 |
| 6 | 311517103026 | 2 | 3 | 3 |
| 7 | 311517103029 | 1 | 2 | 1 |
| 8 | 311517103030 | 2 | 2 | 3 |
| 9 | 311517103033 | 3 | 3 | 2 |
| 10 | 311517103050 | 2 | 2 | 3 |
| 11 | 311517103307 | 2 | 2 | 2 |
| | AVERAGE | 2.1 | 2.5 | 2.4 |
| | 0.3*AVERAGE | 0.6 | 0.8 | 0.7 |

Indirect PO Attainment

| | | | | |
|---------------------|--|-----|-----|-----|
| Exit Survey | | 1.8 | 1.8 | 1.8 |
| Alumni Survey | | 0.6 | 0.8 | 0.7 |
| Indirect Attainment | | 2.4 | 2.6 | 2.5 |



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DEPARTMENT OF INFORMATION TECHNOLOGY

BATCH:2019-2023

ATTAINMENT OF COURSE OUTCOMES

| SEM | # | S.Code | Subject Name | Course Code | Academic Year | INTERNAL ASSESSMENT | | UNIVERSITY RESULT | | | TOTAL ATTAINMENT = (20%IA +80%UR) |
|-----|---|---------|--|-------------|---------------|---------------------|------------------|-------------------|------------------|------------------|-----------------------------------|
| | | | | | | SET TARGET | ATTAINMENT LEVEL | SET TARGET | Target Crossed % | ATTAINMENT LEVEL | |
| I | 1 | HS 8151 | Communicative English | C101 | 2019-2020 | 70 | 3 | 70 | 48.39 | 0 | 0.6 |
| | 2 | MA 8151 | Engineering Mathematics-1 | C102 | 2019-2020 | 70 | 3 | 70 | 46.77 | 0 | 0.6 |
| | 3 | PH 8151 | Engineering Physics-1 | C103 | 2019-2020 | 70 | 3 | 70 | 37.1 | 0 | 0.6 |
| | 4 | CY8151 | Engineering Chemistry | C104 | 2019-2020 | 70 | 3 | 70 | 69.35 | 1 | 1.4 |
| | 5 | GE 8151 | Problem Solving And Python Programming | C105 | 2019-2020 | 70 | 3 | 70 | 25.81 | 0 | 0.6 |
| | 6 | GE 8152 | Engineering Graphics | C106 | 2019-2020 | 70 | 3 | 70 | 61.29 | 1 | 1.4 |
| | 7 | GE8161 | Problem Solving And Python Programming | C107 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 8 | BS8161 | Physics And Chemistry Lab | C108 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| II | 1 | HS8251 | Technical English | C109 | 2019-2020 | 70 | 3 | 70 | 98 | 3 | 3 |
| | 2 | MA8251 | Engineering Mathematics-2 | C110 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 3 | PH8252 | Physics For Information Science | C111 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 4 | BE8255 | Basic Electrical, Electronics | C112 | 2019-2020 | 70 | 3 | 70 | 96.77 | 3 | 3 |
| | 5 | IT8201 | Information Technology | C113 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 6 | CS8251 | Programming In C | C114 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 7 | GE8261 | Engineering Practices Laboratory | C115 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 8 | CS8261 | Programming In C LAB | C116 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 9 | IT8211 | Information Technology | C117 | 2019-2020 | 70 | 3 | 70 | 100 | 3 | 3 |

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DEPARTMENT OF INFORMATION TECHNOLOGY

OVERALL ATTAINMENT OF COURSE OUTCOMES

BATCH:2019-2023

| SEM | # | S.Code | Subject Name | Academic Year | Course Code | INTERNAL ASSESSMENT | | UNIVERSITY RESULT | | | TOTAL ATTAINMENT = (20%IA +80%UR) |
|-----|---|---------|------------------------------------|---------------|-------------|---------------------|------------------|-------------------|------------------|------------------|-----------------------------------|
| | | | | | | SET TARGET | ATTAINMENT LEVEL | SET TARGET | Target Crossed % | ATTAINMENT LEVEL | |
| III | 1 | MA8351 | Discrete Mathematics | 2020-2021 | C201 | 70 | 3 | 70 | 88.71 | 3 | 3 |
| | 2 | CS8351 | Digital Principles & System Design | 2020-2021 | C202 | 70 | 3 | 70 | 96.77 | 3 | 3 |
| | 3 | CS 8391 | Data Structures | 2020-2021 | C203 | 70 | 3 | 70 | 95.16 | 3 | 3 |
| | 4 | CS 8392 | Object Oriented Programming | 2020-2021 | C204 | 70 | 3 | 70 | 88.71 | 3 | 3 |
| | 5 | EC 8394 | Analog & Digital Communication | 2020-2021 | C205 | 70 | 3 | 70 | 96.77 | 3 | 3 |
| | 6 | CS8381 | Data Structures Lab | 2020-2021 | C206 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 7 | CS8383 | Object Oriented Programming Lab | 2020-2021 | C207 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 8 | CS8382 | Digital Systems Lab | 2020-2021 | C208 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 9 | HS8381 | Interpersonal Skills/Listening and | 2020-2021 | C209 | 70 | 3 | 70 | 100 | 3 | 3 |
| IV | 1 | MA8391 | Probability and Statistics | 2020-2021 | C210 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 2 | CS8491 | Computer Architecture | 2020-2021 | C211 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 3 | CS8492 | Database Management systems | 2020-2021 | C212 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 4 | CS8451 | Design and Analysis of Algorithms | 2020-2021 | C213 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 5 | CS8493 | Operating Systems | 2020-2021 | C214 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 6 | GE8291 | Environmental science and | 2020-2021 | C215 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 7 | CS8461 | Operating System Lab | 2020-2021 | C217 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 8 | CS8481 | Database Management systems | 2020-2021 | C216 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 9 | HS8461 | Advanced Reading and writing | 2020-2021 | C218 | 70 | 3 | 70 | 100 | 3 | 3 |

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DEPARTMENT OF INFORMATION TECHNOLOGY

BATCH:2019-2023

ATTAINMENT OF COURSE OUTCOMES

| SEM | # | S.Code | Subject Name | Course Code | Academic Year | INTERNAL ASSESSMENT | | UNIVERSITY RESULT | | | TOTAL ATTAINMENT = (20%IA +80%UR) |
|-----|----|--------|--|-------------|---------------|---------------------|------------------|-------------------|------------------|------------------|-----------------------------------|
| | | | | | | SET TARGET | ATTAINMENT LEVEL | SET TARGET | Target Crossed % | ATTAINMENT LEVEL | |
| V | 1 | MA8551 | Algebra and Number Theory | C301 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 2 | CS8591 | Computer Networks | C302 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 3 | EC8691 | Microprocessors and Microcontrollers | C303 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 4 | IT8501 | Web Technology | C304 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 5 | CS8494 | Software Engineering | C305 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 6 | OBT553 | Fundamentals of Nutrition | C306 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 7 | EC8681 | Microprocessors and Microcontrollers I | C307 | 2021-2022 | 70 | 3 | 70 | 98.41 | 3 | 3 |
| | 8 | CS8581 | Networks Laboratory | C308 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 9 | IT8511 | Web Technology Laboratory | C309 | 2021-2022 | 70 | 3 | 70 | 100 | 3 | 3 |
| VI | 1 | IT8601 | Computational Intelligence | C310 | 2021-2022 | 70 | 3 | 70 | 87.3 | 3 | 3 |
| | 2 | CS8592 | Object Oriented Analysis and Design | C311 | 2021-2022 | 70 | 3 | 70 | 90.48 | 3 | 3 |
| | 3 | IT8602 | Mobile Communication | C312 | 2021-2022 | 70 | 3 | 70 | 87.3 | 3 | 3 |
| | 4 | CS8091 | Big Data Analytics | C313 | 2021-2022 | 70 | 3 | 70 | 93.65 | 3 | 3 |
| | 5 | CS8092 | Computer Graphics and Multimedia | C314 | 2021-2022 | 70 | 3 | 70 | 92.06 | 3 | 3 |
| | 6 | IT8076 | Software Testing | C315 | 2021-2022 | 70 | 3 | 70 | 90.48 | 3 | 3 |
| | 7 | CS8662 | Mobile Application Development | C316 | 2021-2022 | 70 | 3 | 70 | 98.41 | 3 | 3 |
| | 8 | CS8582 | Object Oriented Analysis and Design | C317 | 2021-2022 | 70 | 3 | 70 | 98.41 | 3 | 3 |
| | 9 | IT8611 | Mini Project | C318 | 2021-2022 | 70 | 3 | 70 | 98.41 | 3 | 3 |
| | 10 | HS8581 | Professional Communication | C319 | 2021-2022 | 70 | 3 | 70 | 98.41 | 3 | 3 |

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|------|---|--------|------------------------------------|---------------|-------------|---------------------|------------------|-------------------|------------------|------------------|-----------------------------------|
| | | | | | | SET TARGET | ATTAINMENT LEVEL | SET TARGET | Target Crossed % | ATTAINMENT LEVEL | |
| VII | 1 | MG8591 | Principles Of Management | 2022-2023 | C401 | 70 | 3 | 70 | 95.2 | 3 | 3 |
| | 2 | CS8792 | Cryptography & Network Security | 2022-2023 | C402 | 70 | 3 | 70 | 77.8 | 2 | 2.2 |
| | 3 | CS8791 | Cloud Computing | 2022-2023 | C403 | 70 | 3 | 70 | 85.7 | 3 | 3 |
| | 4 | OBM752 | Hospital Management | 2022-2023 | C404 | 70 | 3 | 70 | 74.6 | 2 | 2.2 |
| | 5 | HX8001 | NAALAIYA THIRAN | 2022-2023 | C405 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 6 | GE8071 | Disaster Management | 2022-2023 | C406 | 70 | 3 | 70 | 88.9 | 3 | 3 |
| | 7 | IT8711 | Foss And Cloud Computing Lab | 2022-2023 | C408 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 8 | IT8761 | Security Lab | 2022-2023 | C407 | 70 | 3 | 70 | 100 | 3 | 3 |
| VIII | 1 | GE8076 | Professional Ethics in Engineering | 2022-2023 | C409 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 2 | CS8078 | Green Computing | 2022-2023 | C410 | 70 | 3 | 70 | 100 | 3 | 3 |
| | 3 | IT8811 | Project Work | 2022-2023 | C411 | 70 | 3 | 70 | 100 | 3 | 3 |

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