MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthalkuppam, Madagadipet, Puducherry - 605 107

## DEPARTMENT OF MECHANICAL ENGINEERING
## CO ATTAINMENT TABLE ( 2016-20 BATCH)

| SL. NO | COURSE CODE | COURSE NAME | NO. OF STUDENTS APPEARED | NO. OF STUDENTS PASSED | PASS % | CO – ATTAINMENT LEVEL | TARGET LEVEL | ATTAINMENT STATUS |
|---|---|---|---|---|---|---|---|---|
| 1 | C101 | Mathematics – I | 86 | 57 | 66.3 | 0 | 3 | Target not Attained |
| 2 | C102 | Physics | 86 | 72 | 83.7 | 3 | 3 | Target Attained |
| 3 | C103 | Chemistry | 86 | 66 | 76.7 | 2 | 3 | Target not Attained |
| 4 | C104 | Basic Electrical and Electronics | 86 | 70 | 81.4 | 3 | 3 | Target Attained |
| 5 | C105 | Engineering Thermodynamics | 86 | 55 | 64 | 0 | 3 | Target not Attained |
| 6 | C106 | Computer Programming | 85 | 50 | 58.8 | 0 | 3 | Target not Attained |
| 7 | C107 (P) | Computer Programming Lab | 86 | 80 | 93 | 3 | 3 | Target Attained |
| 8 | C108 (P) | Engineering Graphics | 85 | 84 | 98.8 | 3 | 3 | Target Attained |
| 9 | C109 (P) | Basic Electrical & Electronics Lab | 86 | 81 | 94.2 | 3 | 3 | Target Attained |
| 10 | C110 | Mathematics – II | 86 | 75 | 83.33 | 3 | 3 | Target Attained |
| 11 | C111 | Material Science | 86 | 89 | 100.00 | 3 | 3 | Target Attained |
| 12 | C112 | Environmental Science | 86 | 85 | 98.84 | 3 | 3 | Target Attained |
| 13 | C113 | Basic Civil and Mechanical Engineering | 86 | 86 | 95.56 | 3 | 3 | Target Attained |
| 14 | C114 | Engineering Mechanics | 86 | 83 | 91.21 | 3 | 3 | Target Attained |
| 15 | C115 | Communicative English | 86 | 84 | 92.31 | 3 | 3 | Target Attained |
| 16 | C116(P) | Physics lab | 86 | 75 | 83.33 | 3 | 3 | Target Attained |
| 17 | C117(P) | Chemistry lab | 86 | 89 | 100.00 | 3 | 3 | Target Attained |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18 | C118 (P) | Workshop Practice | 86 | 85 | 98.84 | 3 | 3 | Target Attained |
| 19 | C119 (P) | NSS / NCC * | *86* | 86 | 95.56 | *3* | 3 | Target Attained |
| 20 | C201 | Mathematics – III | 80 | 71 | 88.75 % | 3 | 3 | Target Attained |
| 21 | C202 | Mechanics of solids | 80 | 55 | 68.75 % | 0 | 3 | Not Target Attained |
| 22 | C203 | Mechanics of Fluids | 80 | 71 | 88.75 % | 3 | 3 | Target Attained |
| 23 | C204 | Applied Thermodynamics | 80 | 55 | 68.75 % | 0 | 3 | Not Target Attained |
| 24 | C205 | Manufacturing process | 80 | 69 | 86.25 % | 3 | 3 | Target Attained |
| 25 | C206 | Electrical and Electronics Engineering | 80 | 61 | 76.25 % | 2 | 3 | Not Target Attained |
| 26 | C207(P) | Material Testing and Metallurgy Lab | 75 | 75 | 100% | 3 | 3 | Target Attained |
| 27 | C208(P) | Manufacturing process lab-1 | 76 | 76 | 100% | 3 | 3 | Target Attained |
| 28 | C209(P) | Electrical and Electronics lab | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |
| 29 | C210 | Mathematics – IV | 76 | 69 | 90.78 % | 3 | 3 | Target Attained |
| 30 | C211 | Engineering Metallurgy | 77 | 73 | 94.80 % | 3 | 3 | Target Attained |
| 31 | C212 | Fluid Machinery | 77 | 73 | 94.80 % | 3 | 3 | Target Attained |
| 32 | C213 | Kinematics of Machinery | 74 | 65 | 87.83 % | 3 | 3 | Target Attained |
| 33 | C214 | Machine Drawing | 76 | 68 | 89.47 % | 3 | 3 | Target Attained |
| 34 | C215 | Machining Processes | 76 | 72 | 94.73 % | 3 | 3 | Target Attained |
| 35 | C216(P) | Fluid Mechanics and Machinery Lab | 74 | 71 | 95.94 % | 3 | 3 | Target Attained |
| 36 | C217(P) | Manufacturing Processes Lab - II | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |
| 37 | C218(P) | Computer Aided Machine Drawing Lab | 73 | 72 | 98.63 % | 3 | 3 | Target Attained |
| 38 | C219(P) | Physical | - | - | - | - | - | Target |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Education | | | | | | Attained |
| 39 | C301 | Dynamics of Machinery | 74 | 67 | 90.54 % | 3 | 3 | Target Attained |
| 40 | C302 | Design of Machine Elements | 74 | 62 | 83.78 % | 3 | 3 | Target Attained |
| 41 | C303 | Metrology and Quality Control | 75 | 64 | 85.33 % | 3 | 3 | Target Attained |
| 42 | C304 | Heat and Mass Transfer | 73 | 63 | 86.30 % | 3 | 3 | Target Attained |
| 43 | C305 | Mechanical Measurements | 74 | 72 | 97.29 % | 3 | 3 | Target Attained |
| 44 | C306 | Industrial Casting Technology | 75 | 72 | 96.00 % | 3 | 3 | Target Attained |
| 45 | C307(P) | Manufacturing Process Lab - III | 70 | 70 | 100% | 3 | 3 | Target Attained |
| 46 | C308(P) | Mechanical Measurement and | 70 | 70 | 100% | 3 | 3 | Target Attained |
| 47 | C309(P) | Computational Methods Lab | 73 | 73 | 100% | 3 | 3 | Target Attained |
| 48 | C310(P) | General Proficiency - I | 77 | 77 | 100% | 3 | 3 | Target Attained |
| 49 | C311 | Operations Research | 75 | 69 | 92.00 % | 3 | 3 | Target Attained |
| 50 | C312 | Design of Transmission Systems | 75 | 71 | 94.66 % | 3 | 3 | Target Attained |
| 51 | C313 | Thermal Engineering | 75 | 55 | 73.33 % | 3 | 3 | Target Attained |
| 52 | C314 | Computer Integrated Manufacturing | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |
| 53 | C315 | Control System Engineering | 75 | 72 | 96.00 % | 3 | 3 | Target Attained |
| 54 | C316 | Automobile Engineering | 75 | 63 | 84% | 3 | 3 | Target Attained |
| 55 | C317(P) | Thermal Engineering Lab - I | 75 | 75 | 100% | 3 | 3 | Target Attained |
| 56 | C318(P) | Dynamics of Machine Lab | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |
| 57 | C319(P) | Computational Fluid Dynamics Lab | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 58 | C320(P) | General Proficiency - II | 77 | 77 | 100% | 3 | 3 | Target Attained |
| 59 | C401 | Computer Aided Design | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |
| 60 | C402 | Industrial Engineering and management | 75 | 71 | 94.66 % | 3 | 3 | Target Attained |
| 61 | C403 | Refrigeration, Air Conditioning and Cryogenic engineering | 75 | 66 | 88.00 % | 3 | 3 | Target Attained |
| 62 | C404 | Metal Forming Processes | 75 | 74 | 98.66 % | 3 | 3 | Target Attained |
| 63 | C405 (P) | Thermal Engineering Lab - II | 70 | 70 | 100% | 3 | 3 | Target Attained |
| 64 | C406 (P) | Computer Aided Engineering Lab | 71 | 71 | 100% | 3 | 3 | Target Attained |
| 65 | C407(P) | Comprehensive Viva - Voce | 74 | 74 | 100% | 3 | 3 | Target Attained |
| 66 | C408(P) | Industrial Visit/Training Report | 74 | 74 | 100% | 3 | 3 | Target Attained |
| 67 | C409(P) | Project Work(Phase I) | 73 | 73 | 100% | 3 | 3 | Target Attained |
| 68 | C410 | Power Plant Engineering | 76 | 76 | 100% | 3 | 3 | Target Attained |
| 69 | C411 | Professional Ethics And Indian Constitution | 76 | 76 | 100% | 3 | 3 | Target Attained |
| 70 | C412 | Composite Materials | 76 | 76 | 100% | 3 | 3 | Target Attained |
| 71 | C413 | Maintenance And Safety Engineering | 76 | 76 | 100% | 3 | 3 | Target Attained |
| 72 | C414 | Project Work (Phase- II) | 76 | 76 | 100% | 3 | 3 | Target Attained |
| 73 | C415 | Seminar | 76 | 76 | 100% | 3 | 3 | Target Attained |

DEPT. OF MECHANICAL ENGG. MIT
No...............
Date...............

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## DEPARTMENT OF MECHANICAL ENGINEERING
## ATTAINMENT OF PROGRAM OUTCOMES (2016-20 BATCH)

| COURSE CODE | COURSE NAME | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C101 | Mathematics – I | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| C102 | Physics | 3 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | 3 |
| C103 | Chemistry | 2 | 2 | 2 | - | - | 2 | 2 | - | - | - | - | 2 |
| C104 | Basic Electrical and Electronics | 3 | 3 | 3 | - | - | 3 | 3 | - | - | - | 3 | 3 |
| C105 | Engineering Thermodynamics | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| C106 | Computer Programming | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C107 (P) | Computer Programming Lab | 3 | 3 | 3 | 3 | 3 | 3 | - | - | 3 | - | 3 | 3 |
| C108 (P) | Engineering Graphics | 3 | 3 | - | - | - | - | - | - | - | - | - | - |
| C109 (P) | Basic Electrical & Electronics Lab | 3 | 3 | - | - | - | 3 | 3 | - | 3 | 3 | 3 | 3 |
| C110 | Mathematics – II | 3 | 3 | 3 | 3 | - | - | 3 | - | - | - | - | 3 |
| C111 | Material Science | 3 | 3 | 3 | - | - | 3 | 3 | - | - | - | - | 3 |
| C112 | Environmental Science | 3 | - | - | - | - | 3 | 3 | - | - | - | 3 | 3 |
| C113 | Basic Civil and Mechanical Engineering | 3 | 3 | 3 | 3 | - | 3 | 3 | - | - | 3 | - | 3 |
| C114 | Engineering Mechanics | 3 | 3 | - | 3 | - | 3 | - | - | - | 3 | - | 3 |
| C115 | Communicative English | - | - | - | - | - | - | - | - | 3 | 3 | - | 3 |
| C116(P) | Physics lab | 3 | - | - | 3 | - | 3 | 3 | - | 3 | 3 | - | 3 |
| C117(P) | Chemistry lab | 3 | - | - | - | - | 3 | 3 | - | 3 | 3 | - | 3 |
| C118 (P) | Workshop Practice | - | - | 3 | - | - | - | - | - | - | - | - | - |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C119 (P) | NSS / NCC * | 3 | - | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| C201 | Mathematics – III | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | 3 |
| C202 | Mechanics of solids | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| C203 | Mechanics of Fluids | 3 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | 3 |
| C204 | Applied Thermodynamics | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| C205 | Manufacturing process | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | 3 |
| C206 | Electrical and Electronics Engineering | 2 | 2 | 2 | 2 | 2 | 2 | - | - | 2 | 2 | 2 | 2 |
| C207(P) | Material Testing and Metallurgy Lab | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - |
| C208(P) | Manufacturing process lab-1 | 3 | - | - | - | - | - | - | - | - | 3 | - | - |
| C209(P) | Electrical and Electronics lab | 3 | 3 | 3 | 3 | 3 | 3 | - | 3 | 3 | 3 | 3 | 3 |
| C210 | Mathematics – IV | 3 | 3 | 3 | 3 | - | - | 3 | - | - | - | 3 | 3 |
| C211 | Engineering Metallurgy | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - |
| C212 | Fluid Machinery | 3 | 3 | 3 | - | - | 3 | 3 | - | - | - | - | 3 |
| C213 | Kinematics of Machinery | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | 3 |
| C214 | Machine Drawing | 3 | 3 | 3 | - | - | - | - | - | - | 3 | - | - |
| C215 | Machining Processes | 3 | - | - | 3 | - | - | - | - | - | - | - | 3 |
| C216(P) | Fluid Mechanics and Machinery Lab | 3 | 3 | - | - | - | 3 | - | - | - | 3 | - | - |
| C217(P) | Manufacturing Processes Lab - II | 3 | - | - | - | - | - | - | - | - | 3 | - | - |
| C218(P) | Computer Aided Machine Drawing Lab | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | - |
| C219(P) | Physical Education | - | - | - | - | - | 3 | - | 3 | 3 | 3 | - | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C301 | Dynamics of Machinery | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - |
| C302 | Design of Machine Elements | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | 3 |
| C303 | Metrology and Quality Control | 3 | 3 | 3 | 3 | - | 3 | - | - | - | - | 3 | - |
| C304 | Heat and Mass Transfer | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 3 |
| C305 | Mechanical Measurements | 3 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - |
| C306 | Industrial Casting Technology | 3 | 3 | 3 | - | - | 3 | 3 | - | - | - | - | - |
| C307(P) | Manufacturing Process Lab - III | 3 | - | - | - | 3 | - | - | - | - | 3 | - | - |
| C308(P) | Mechanical Measurement and | 3 | 3 | - | 3 | 3 | - | - | - | - | - | - | - |
| C309(P) | Computational Methods Lab | 3 | 3 | - | 3 | - | - | - | - | - | - | - | 3 |
| C310(P) | General Proficiency - I | - | - | - | - | - | - | - | - | 3 | 3 | - | 3 |
| C311 | Operations Research | 3 | 3 | 3 | 3 | - | 3 | 3 | - | - | 3 | 3 | 3 |
| C312 | Design of Transmission Systems | 3 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | 3 |
| C313 | Thermal Engineering | 3 | 3 | 3 | - | - | 3 | - | - | - | - | - | 3 |
| C314 | Computer Integrated Manufacturing | - | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - |
| C315 | Control System Engineering | 3 | 3 | 3 | 3 | 3 | 3 | - | - | 3 | 3 | 3 | 3 |
| C316 | Automobile Engineering | 3 | - | 3 | - | - | 3 | 3 | - | - | - | - | 3 |
| C317(P) | Thermal Engineering Lab - I | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 3 |
| C318(P) | Dynamics of Machine Lab | 3 | 3 | - | - | - | 3 | - | - | - | 3 | - | - |
| C319(P) | Computational Fluid Dynamics Lab | 3 | 3 | - | 3 | 3 | - | - | - | - | - | - | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C320(P) | General Proficiency - II | - | - | - | - | - | - | - | 3 | 3 | 3 | - | 3 |
| C401 | Computer Aided Design | 3 | 3 | 3 | - | 3 | - | - | - | - | 3 | - | - |
| C402 | Industrial Engineering and management | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | - | 3 | 3 |
| C403 | Refrigeration, Air Conditioning and Cryogenic engineering | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| C404 | Metal Forming Processes | 3 | - | - | - | - | - | 3 | - | - | - | 3 | 3 |
| C405 (P) | Thermal Engineering Lab - II | 3 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - |
| C406 (P) | Computer Aided Engineering Lab | 3 | - | 3 | - | 3 | - | - | - | - | - | - | - |
| C407(P) | Comprehensive Viva - Voce | 3 | 3 | - | - | 3 | 3 | - | 3 | 3 | 3 | - | 3 |
| C408(P) | Industrial Visit/Training Report | 3 | - | - | 3 | 3 | 3 | - | 3 | 3 | 3 | 3 | 3 |
| C409(P) | Project Work(Phase I) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| C410 | Power Plant Engineering | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| C411 | Professional Ethics And Indian Constitution | - | - | - | - | - | - | - | 3 | - | - | - | 3 |
| C412 | Composite Materials | 3 | - | - | - | - | - | 3 | - | - | - | - | 3 |
| C413 | Maintenance And Safety Engineering | 3 | 3 | 3 | - | - | - | 3 | - | - | - | - | 3 |
| C414 | Project Work (Phase- II) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| C415 | Seminar | - | 3 | - | 3 | - | - | - | - | - | 3 | - | 3 |
| **AVG OF POs** | | **2.74** | **2.69** | **2.62** | **2.60** | **2.82** | **2.85** | **2.83** | **2.77** | **2.80** | **2.86** | **2.79** | **2.68** |

**DIRECT ASSESSMENT OF Pos**

| DIRECT ASSESSMENT OF POs | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PO' S | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| AVG OF DIRECT ASSESSMENT | 2.74 | 2.69 | 2.62 | 2.60 | 2.82 | 2.85 | 2.83 | 2.77 | 2.80 | 2.86 | 2.79 | 2.68 |
| WEIGHTAGE OF 80% OF DIRECT PO | 2.19 | 2.15 | 2.10 | 2.08 | 2.25 | 2.28 | 2.27 | 2.22 | 2.24 | 2.29 | 2.23 | 2.14 |

**INDIRECT ASSESSMENT OF POs**

| INDIRECT ASSESSMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SURVEYs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| COURSE EXIT SURVEY | 2.88 | 2.58 | 2.81 | 2.54 | 2.58 | 2.62 | 2.58 | 2.77 | 2.81 | 2.77 | 2.69 | 2.62 |
| ALUMNI SURVEY | 2.55 | 2.44 | 2.59 | 2.50 | 2.55 | 2.36 | 2.47 | 2.33 | 2.42 | 2.35 | 2.38 | 2.41 |
| EMPLOYER SURVEY | 2.80 | 2.20 | 2.00 | 2.50 | 2.40 | 2.60 | 2.40 | 2.40 | 2.80 | 2.40 | 2.20 | 2.80 |
| AVG OF 3 SURVEYS | 2.74 | 2.41 | 2.47 | 2.51 | 2.51 | 2.53 | 2.48 | 2.50 | 2.68 | 2.51 | 2.42 | 2.61 |
| WEIGHTAGE OF 20% OF IN DIRECT PO | 0.55 | 0.48 | 0.49 | 0.50 | 0.50 | 0.51 | 0.50 | 0.50 | 0.54 | 0.50 | 0.48 | 0.52 |

**OVERALL ATTAINMENT OF POs**

| OVERALL ATTAINMENT OF POs | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PO' S | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| (DIRECT 80%) | 2.19 | 2.15 | 2.10 | 2.08 | 2.25 | 2.28 | 2.27 | 2.22 | 2.24 | 2.29 | 2.23 | 2.14 |
| (INDIRECT 20%) | 0.55 | 0.48 | 0.49 | 0.50 | 0.50 | 0.51 | 0.50 | 0.50 | 0.54 | 0.50 | 0.48 | 0.52 |
| OVERALL | 2.74 | 2.63 | 2.59 | 2.58 | 2.76 | 2.79 | 2.76 | 2.72 | 2.78 | 2.79 | 2.72 | 2.67 |
| TARGET | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

DEPT. OF MECHANICAL ENGG. MVIT, PUDUCHERRY

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## DEPARTMENT OF MECHANICAL ENGINEERING
## ATTAINMENT OF PROGRAM SPECIFIC OUTCOMES (2016-20 BATCH)

| COURSE CODE | COURSE NAME | PSO1 | PSO2 |
|---|---|---|---|
| C101 | Mathematics – I | - | 0 |
| C102 | Physics | 3 | 3 |
| C103 | Chemistry | 2 | - |
| C104 | Basic Electrical and Electronics | 3 | 3 |
| C105 | Engineering Thermodynamics | 0 | - |
| C106 | Computer Programming | 0 | 0 |
| C107 (P) | Computer Programming Lab | 3 | 3 |
| C108 (P) | Engineering Graphics | - | 3 |
| C109 (P) | Basic Electrical & Electronics Lab | - | - |
| C110 | Mathematics – II | - | 3 |
| C111 | Material Science | 3 | 3 |
| C112 | Environmental Science | 3 | 3 |
| C113 | Basic Mechanical Engineering | 3 | - |
| C114 | Engineering Mechanics | - | - |
| C115 | Communicative English | 3 | 3 |
| C116(P) | Physics lab | 3 | 3 |
| C117(P) | Chemistry lab | - | - |
| C118 (P) | Workshop Practice | 3 | - |
| C119 (P) | NSS/NCC* | - | - |
| C201 | Mathematics – III | 3 | 3 |
| C202 | Mechanics of solids | - | 0 |

| | | | |
|---|---|---|---|
| C203 | Mechanics of Fluids | 3 | 3 |
| C204 | Applied Thermodynamics | 3 | 0 |
| C205 | Manufacturing process | 3 | - |
| C206 | Electrical and Electronics Engineering | 2 | 2 |
| C207(P) | Material Testing and Metallurgy Lab | - | 3 |
| C208(P) | Manufacturing process lab-1 | 3 | - |
| C209(P) | Electrical and Electronics lab | 3 | 3 |
| C210 | Mathematics – IV | 3 | 3 |
| C211 | Engineering Metallurgy | 3 | - |
| C212 | Fluid Machinery | 3 | 3 |
| C213 | Kinematics of Machinery | 3 | 3 |
| C214 | Machine Drawing | - | 3 |
| C215 | Machining Processes | 3 | - |
| C216(P) | Fluid Mechanics and Machinery Lab | 3 | - |
| C217(P) | Manufacturing Processes Lab - II | 3 | - |
| C218(P) | Computer Aided Machine Drawing Lab | - | 3 |
| C219(P) | Physical Education | - | - |
| C301 | Dynamics of Machinery | 3 | 3 |
| C302 | Design of Machine Elements | - | 3 |
| C303 | Metrology and Quality Control | 3 | - |
| C304 | Heat and Mass Transfer | 3 | - |
| C305 | Mechanical Measurements | 3 | 3 |
| C306 | Industrial Casting Technology | 3 | 3 |

| | | | |
|---|---|---|---|
| C307(P) | Manufacturing Process Lab - III | 3 | 3 |
| C308(P) | Mechanical Measurement and | 3 | - |
| C309(P) | Computational Methods Lab | - | 3 |
| C310(P) | General Proficiency - I | - | - |
| C311 | Operations Research | - | 3 |
| C312 | Design of Transmission Systems | - | 3 |
| C313 | Thermal Engineering | 3 | - |
| C314 | Computer Integrated Manufacturing | 3 | 3 |
| C315 | Control System Engineering | 3 | 3 |
| C316 | Automobile Engineering | 3 | 3 |
| C317(P) | Thermal Engineering Lab - I | 3 | - |
| C318(P) | Dynamics of Machine Lab | 3 | - |
| C319(P) | Computational Fluid Dynamics Lab | - | 3 |
| C320(P) | General Proficiency - II | - | - |
| C401 | Computer Aided Design | - | 3 |
| C402 | Industrial Engineering and management | 3 | 3 |
| C403 | Refrigeration, Air Conditioning and Cryogenic engineering | 3 | 3 |
| C404 | Metal Forming Processes | 3 | - |
| C405 (P) | Thermal Engineering Lab - II | 3 | - |
| C406 (P) | Computer Aided Engineering Lab | - | 3 |
| C407(P) | Comprehensive Viva - Voce | 3 | 3 |

| | | | |
|---|---|---|---|
| C408(P) | Industrial Visit/Training Report | 3 | 3 |
| C409(P) | Project Work(Phase I) | 3 | 3 |
| C410 | Power Plant Engineering | 3 | 3 |
| C411 | Professional Ethics And Indian Constitution | - | - |
| C412 | Composite Materials | 3 | - |
| C413 | Maintenance And Safety Engineering | 3 | - |
| C414(P) | Project Work (Phase- II) | 3 | 3 |
| C415(P) | Seminar | 3 | 3 |
| **Average of PSO's** | | **2.84** | **2.71** |

**DIRECT ASSESSMENT OF PSOs**

| **DIRECT ASSESSMENT OF PSO** | | |
|---|---|---|
| PSO'S | PSO1 | PS02 |
| AVG OF DIRECT ASSESSMENT | **2.84** | **2.71** |
| (WEIGHTAGE OF 80%) | **2.27** | **2.17** |

**INDIRECT ASSESSMENT OF PSOs**

| **INDIRECT ASSESSMENT OF PSO** | | |
|---|---|---|
| SURVEYs | PSO1 | PSO2 |
| COURSE EXIT SURVEY | **3** | **2.42** |
| ALUMNI SURVEY | **2.58** | **2.64** |
| EMPLOYER SURVEY | **0.56** | **0.51** |
| AVG OF SURVEYS | **2.05** | **1.86** |
| (WEIGHTAGE OF 20%) | **0.41** | **0.37** |

**OVERALL ATTAINMENT OF PSOs**

| OVERALL ATTAINMENT OF PSO | | |
|---|---|---|
| PSO'S | PSO1 | PSO2 |
| (DIRECT 80%) | 2.27 | 2.17 |
| (INDIRECT 20%) | 0.41 | 0.37 |
| OVERALL | 2.68 | 2.54 |
| TARGET | 3 | 3 |

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