



Aldel Education Trust's
St. John College of Engineering and Management, Palghar

(A Christian Religious Minority Institute)

Approved by AICTE recognized by DTE and affiliated to University of Mumbai
 St. John Technical Education Complex, Vevoor, Manor Road, Palghar(E), Thane District- 401404.

DEPARTMENT OF MECHANICAL ENGINEERING

CO Attainment for 2019-23 Batch

Table: CO Attainment of all Courses for 2019-23 batch

| Course Code | CO1 | CO2 | CO3 | CO4 | CO5 | CO6 |
|---------------------|-------|-------|-------|------|------|------|
| Semester I | | | | | | |
| FEC101 | 1.66 | 2.46 | 2.46 | 2.46 | 2.46 | 2.46 |
| FEC102 | 2.6 | 2.6 | 2.6 | 2.6 | 2.2 | 2.2 |
| FEC103 | 1.94 | 1.94 | 2.46 | 1.94 | 1.66 | 2.74 |
| FEC104 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| FEC105 | 2.464 | 2.464 | 2.464 | 2.2 | 2.2 | 2.2 |
| Semester II | | | | | | |
| FEC201 | 3 | 3 | 3 | 3 | 3 | 3 |
| FEC202 | 3 | 3 | 3 | 3 | 3 | 3 |
| FEC203 | 2.2 | 2.2 | 2.2 | 2.6 | 3 | 2.6 |
| FEC204 | 3 | 3 | 3 | 3 | 3 | 3 |
| FEC205 | 3 | 2.46 | 3 | 3 | 3 | 3 |
| FEC206 | 3 | 3 | 3 | 3 | 3 | 3 |
| Semester III | | | | | | |
| MEC301 | 2.87 | 2.5 | 2.7 | 2.63 | 2.96 | 2.73 |
| MEC302 | 2.87 | 2.62 | 2.64 | 2.55 | 2.8 | 2.97 |
| MEC303 | 2.75 | 2.6 | 2.62 | 2.89 | 2.51 | 2.71 |
| MEC304 | 2.59 | 2.88 | 2.53 | 2.6 | 2.69 | 2.82 |
| MEC305 | 2.56 | 2.93 | 2.53 | 2.8 | 2.66 | 2.97 |
| MEL301 | 3 | 3 | 3 | 3 | 3 | 3 |
| MEL302 | 3 | 3 | 3 | 3 | 3 | 3 |
| Semester IV | | | | | | |
| MEC401 | 2.65 | 2.85 | 2.67 | 2.65 | 2.78 | 2.92 |
| MEC402 | 2.82 | 2.71 | 2.79 | 2.62 | 2.94 | 2.83 |
| MEC403 | 2.99 | 2.5 | 2.71 | 2.89 | 2.84 | 2.56 |
| MEC404 | 2.87 | 2.9 | 2.5 | 2.9 | 2.96 | 2.98 |
| MEC405 | 2.55 | 2.63 | 2.86 | 2.79 | 2.61 | 2.76 |
| MEL401 | 3 | 3 | 3 | 3 | 3 | 3 |
| MEL402 | 3 | 3 | 3 | 3 | 3 | 3 |
| MEL403 | 3 | 3 | 3 | 3 | 3 | 3 |
| Semester V | | | | | | |
| MEC501 | 2.64 | 2.82 | 2.57 | 2.84 | 2.54 | 2.9 |
| MEC502 | 2.75 | 2.58 | 2.67 | 2.52 | 2.55 | 2.63 |

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| | | | | | | |
|----------------------|------|------|------|------|------|------|
| MEC503 | 2.73 | 2.57 | 2.88 | 2.86 | 2.52 | 2.59 |
| MEC504 | 2.98 | 2.68 | 2.85 | 2.93 | 2.53 | 2.95 |
| MEDLO5011 | 2.92 | 2.75 | 2.64 | 2.55 | 2.81 | 2.58 |
| MEDLO5012 | 2.68 | 2.76 | 3 | 2.65 | 2.89 | 2.73 |
| MEL501 | 3 | 3 | 3 | 3 | 3 | 3 |
| MEL502 | 3 | 3 | 3 | 3 | 3 | 3 |
| MEL503 | 3 | 3 | 3 | 3 | 3 | 3 |
| Semester VI | | | | | | |
| MEC601 | 1.67 | 1.87 | 1.5 | 1.88 | 1.91 | 1.05 |
| MEC602 | 1.13 | 1.56 | 1.47 | 1.91 | 1.8 | 1.33 |
| MEC603 | 1.62 | 1.78 | 1.29 | 1 | 1.3 | 1.32 |
| MEC604 | 1.33 | 1.7 | 1.17 | 1 | 1.47 | 1.68 |
| MEDLO6023 | 1.89 | 1.17 | 1.39 | 1.62 | 1.3 | 1.75 |
| MEL601 | 2.65 | 2.38 | 2.45 | 2.58 | 2.75 | 2.69 |
| MEL602 | 2.22 | 2.86 | 2.47 | 2.69 | 2.51 | 2.47 |
| MEL603 | 2.4 | 2.12 | 2.67 | 2.82 | 2.4 | 2.96 |
| Semester VII | | | | | | |
| MEC701 | 2.31 | 1.85 | 2 | 2.01 | 1.64 | 1.76 |
| MEC702 | 2.2 | 2.2 | 1.8 | 2.2 | 2.2 | 2.2 |
| MEDLO7032 | 2.39 | 2.11 | 2.02 | 2.49 | 2.62 | 2.14 |
| MEDLO7033 | 2.11 | 2.1 | 1.85 | 1.79 | 1.93 | 1.87 |
| MEDLO7043 | 2.32 | 1.59 | 1.87 | 2.29 | 2.36 | 2.32 |
| ILO7016 | 1.99 | 2.22 | 1.95 | 1.87 | 1.81 | 2.34 |
| ILO7018 | 1.63 | 1.99 | 2.5 | 2.37 | 2.67 | 1.71 |
| MEL701 | 2.02 | 1.63 | 1.41 | 2.19 | 1.42 | 2.05 |
| MEL702 | 2.37 | 2.16 | 2.19 | 2.42 | 2.5 | 2.3 |
| MEL703 | 2.15 | 2.49 | 2.35 | 2.41 | 2.09 | 2.39 |
| Semester VIII | | | | | | |
| MEC801 | 2 | 2.36 | 1.86 | 2.02 | 2.42 | 2.45 |
| MEDLO8053 | 2.25 | 2.18 | 2.16 | 2.65 | 1.77 | 2.03 |
| MEDLO8061 | 2.53 | 2.7 | 2.5 | 2.53 | 2.8 | 2.63 |
| MEDLO8063 | 2.57 | 2.89 | 2.58 | 2.71 | 2.35 | 2.21 |
| ILO8021 | 2.9 | 2.18 | 2.6 | 2.8 | 2.64 | 2.28 |
| ILO8022 | 2.62 | 2.5 | 2.59 | 2.66 | 2.21 | 2.33 |
| ILO8029 | 2.86 | 2.26 | 2.59 | 2.3 | 2.91 | 2.72 |



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Table: Summary of CO Attainment for 2019-23 batch

| Attribute | Count | Percentage |
|---|------------|------------|
| CO Attainment less than 1.8 (<60%) | 36 | 10.00 |
| CO Attainment between 1.8 (60%) and 2.249 (<75%) | 59 | 16.39 |
| CO Attainment between 2.25 (75%) and 2.699 (<90%) | 114 | 31.67 |
| CO Attainment above 2.7 (>90%) | 151 | 41.94 |
| Total | 360 | |

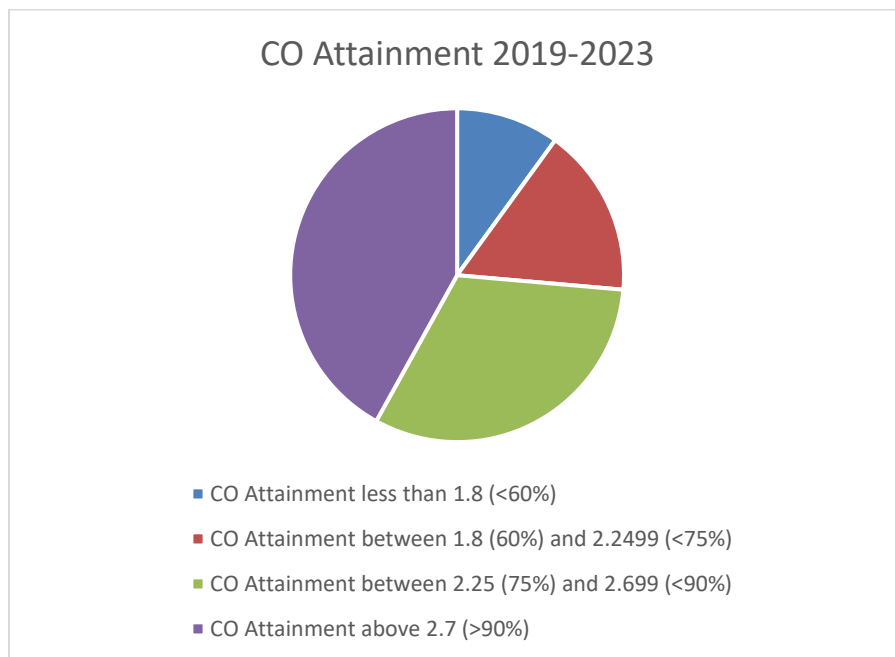


Figure: CO Attainment distribution for 2019-23 batch



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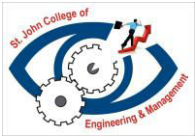
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DEPARTMENT OF MECHANICAL ENGINEERING

PO Attainment for 2019-23 Batch

Table: PO Attainment of all Courses for 2019-23 batch

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------------------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|-------|
| Semester I | | | | | | | | | | | | |
| FEC101 | 2.327 | 2.392 | 2.392 | 2.339 | 2.375 | | | | 2.327 | 2.327 | | 2.327 |
| FEC102 | 2.46 | 2.46 | 2.46 | 2.46 | | | | 2.46 | | 2.46 | | 2.46 |
| FEC103 | 2.12 | 2.25 | 2.25 | 2.25 | 2.2 | 2.29 | 2.11 | | | | 1.94 | 2.13 |
| FEC104 | 2.8 | 2.8 | 2.8 | | | | | | | | | 2.8 |
| FEC105 | 2.33 | 2.35 | 2.37 | 2.35 | 2.464 | 2.2 | 2.2 | 2.35 | 2.31 | | | 2.332 |
| Semester II | | | | | | | | | | | | |
| FEC201 | 3 | 3 | 3 | 3 | | | | | 3 | 3 | | 2.99 |
| FEC202 | 3 | 3 | 3 | 3 | | | | 3 | | 3 | | 3 |
| FEC203 | 2.45 | 2.31 | 2.37 | 2.31 | | 2.31 | 2.2 | 2.47 | | | 2.6 | 2.46 |
| FEC204 | 3 | 3 | | 3 | 3 | | | | | | | 3 |
| FEC205 | 2.24 | 2.9 | 2.9 | 2.9 | 3 | | | | | 3 | | 3 |
| FEC206 | 3 | 3 | 3 | | 3 | 3 | | 3 | 3 | 3 | | 3 |
| Semester III | | | | | | | | | | | | |
| MEC301 | 2.57 | 2.72 | 2.78 | | | | | | | | 2.1 | 1.86 |
| MEC302 | 2.93 | 2.89 | 2.74 | 2.72 | 2.75 | | | | | 2.57 | | |
| MEC303 | 2.98 | 2.47 | 2.97 | 2.47 | | | 2.45 | 2.3 | | | | 2.46 |
| MEC304 | 2.91 | 2.89 | 2.89 | 2.89 | 2.12 | 2.69 | 2 | 2.73 | 2.81 | 2.68 | 2.58 | 2.91 |
| MEC305 | 2.09 | 1.42 | 2.88 | 2.87 | 2.95 | 2.39 | 2.84 | | | | 2.9 | 2.8 |
| MEL301 | 2.41 | 2.18 | 1.98 | 2.16 | | 2.13 | 2.25 | | 2.46 | | | 2.38 |
| MEL302 | 2.5 | 2.6 | 1.85 | | | 2.26 | 2.89 | | 1.95 | 1.99 | | 2.29 |
| Semester IV | | | | | | | | | | | | |
| MEC401 | 2.38 | 2.15 | 2.21 | | | | | | | | 2.57 | 2.48 |
| MEC402 | 2.2 | 2.18 | 2 | 2.34 | 2.35 | 2.41 | 2.1 | 2.96 | | 2.41 | 2.4 | 2.45 |
| MEC403 | 2.1 | 2.27 | 2.38 | 2.49 | 2.51 | | 2.67 | | | | | 2.35 |
| MEC404 | 2.51 | 2.13 | 2.11 | 2.57 | 2.86 | 2.71 | | 2.62 | 2.58 | 2.51 | 1.97 | |
| MEC405 | 2.76 | 1.93 | 2.44 | | | 2.32 | 2.65 | | 2.33 | | 2.29 | |
| MEL401 | 2.41 | 2.31 | 1.93 | | | 2.76 | 3 | | 2.75 | | 2.18 | |
| MEL402 | 2.5 | 2.32 | 2.07 | 2.74 | 2.79 | | 2.36 | | | | | 2.49 |
| MEL403 | | 2.56 | 2 | | | 2.81 | | 2.95 | | 2.62 | 2.38 | |
| Semester V | | | | | | | | | | | | |
| MEC501 | 2.87 | | 2.56 | 3 | 2.75 | | | | 2.46 | 2.41 | | |



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|-------------------------------------|-------|-------|-------|-------|------|------|-------|------|------|------|-------|------|
| Average | 2.43 | 2.40 | 2.43 | 2.45 | 2.64 | 2.56 | 2.38 | 2.59 | 2.54 | 2.57 | 2.36 | 2.58 |
| Average –PO Attainment-Direct (80%) | 1.94 | 1.92 | 1.94 | 1.96 | 2.11 | 2.04 | 1.91 | 2.08 | 2.03 | 2.05 | 1.89 | 2.07 |
| PO-Indirect Attainment | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 |
| PO-Indirect Attainment (20%) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.2 | 0.4 | 0.2 | 0.2 | 0.4 |
| Final PO-Attainment | 2.14 | 2.12 | 2.14 | 2.16 | 2.31 | 2.24 | 2.31 | 2.28 | 2.43 | 2.25 | 2.09 | 2.47 |
| Targeted Map Level | 2.29 | 2.06 | 1.97 | 2.00 | 1.92 | 1.72 | 1.49 | 1.62 | 2.01 | 1.70 | 1.65 | 1.68 |
| Target Attainment Level | 2.27 | 2.24 | 2.25 | 2.24 | 2.24 | 2.20 | 2.47 | 2.23 | 2.40 | 2.23 | 2.20 | 2.43 |
| Deviation % | -5.81 | -5.44 | -4.96 | -3.68 | 2.98 | 1.85 | -6.55 | 1.98 | 1.46 | 1.03 | -5.37 | 1.64 |

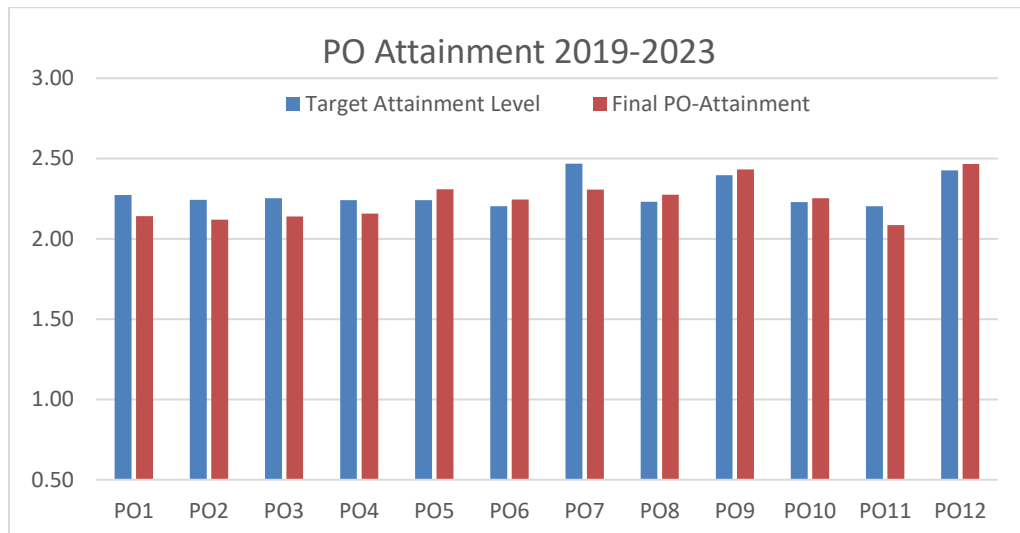


Figure: PO Attainment status for 2019-23 batch



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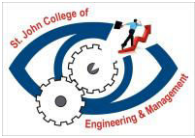
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PSO Attainment for 2019-23 Batch

Table: PSO Attainment of all Courses for 2019-23 batch

| Course | PSO1 | PSO2 | PSO3 |
|-----------|------|------|------|
| MEC302 | 2.68 | 1.9 | 2.57 |
| MEC303 | 2.62 | | 2.45 |
| MEC304 | 2.41 | 2.61 | 2.46 |
| MEC305 | 2.55 | 2.45 | 2.85 |
| MEL301 | 2.77 | 2.41 | 1.92 |
| MEL302 | 2.64 | 2.28 | 2.76 |
| MEC402 | 2.8 | 2.88 | 2.51 |
| MEC403 | 2.89 | 2.29 | 2.68 |
| MEC404 | 2.92 | | 2.68 |
| MEC405 | 2.45 | 2.29 | 2.23 |
| MEL401 | 2.72 | 2.15 | 2.84 |
| MEL402 | 2.64 | 2.53 | 2.37 |
| MEC501 | 2.86 | | |
| MEC502 | 2.52 | 2.71 | |
| MEC503 | 2.53 | | 2.63 |
| MEC504 | 2.57 | 2.82 | 2.93 |
| MEDLO5011 | 2.48 | | 1.78 |
| MEDLO5012 | 2.8 | | 2.28 |
| MEL501 | 2.42 | 2.67 | |
| MEL502 | 2.43 | | 2.21 |
| MEL503 | 2.49 | 2.88 | 2.48 |
| MEC601 | 2.66 | | 2.8 |
| MEC602 | 2.59 | | 2.31 |
| MEC603 | 2.47 | 2.45 | |
| MEC604 | | | 2.64 |
| MEDLO6023 | 2.64 | 2.13 | 2.3 |
| MEL601 | 2.39 | | 2.81 |
| MEL602 | 2.48 | | 1.87 |
| MEL603 | 2.92 | 2.8 | |
| MEC701 | 2.79 | | 2.68 |
| MEC702 | | | 2.47 |
| MEDLO7032 | 2.68 | 2.64 | 2.98 |
| MEDLO7033 | 2.59 | | 2.82 |
| MEDLO7043 | 2.45 | | 2.31 |



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| | | | |
|----------------------------------|---------------|-----------------|-----------------|
| ILO7018 | 2.45 | 2.46 | |
| MEL701 | 2.46 | | 2.53 |
| MEL702 | 2.7 | | 2.74 |
| MEC801 | | | 2.21 |
| MEDLO8053 | 2.85 | | 2.58 |
| MEDLO8061 | 2.75 | | |
| MEDLO8063 | | | 2.89 |
| ILO8021 | | | 2.82 |
| ILO8029 | | | 2.59 |
| Average –Direct | 2.62 | 2.49 | 2.53 |
| Direct Attainment (80%) | 2.10 | 1.99 | 2.02 |
| Indirect Attainment (PES) | 1 | 1 | 1 |
| Indirect Attainment (20%) | 0.2 | 0.2 | 0.2 |
| Final PSO-Attainment | 2.30 | 2.19 | 2.22 |
| Targeted Map Level | 1.88 | 1.75 | 1.69 |
| Target Attainment Level | 2.27 | 2.26 | 2.29 |
| Deviation (%) | 1.1493 | -2.80095 | -3.02089 |

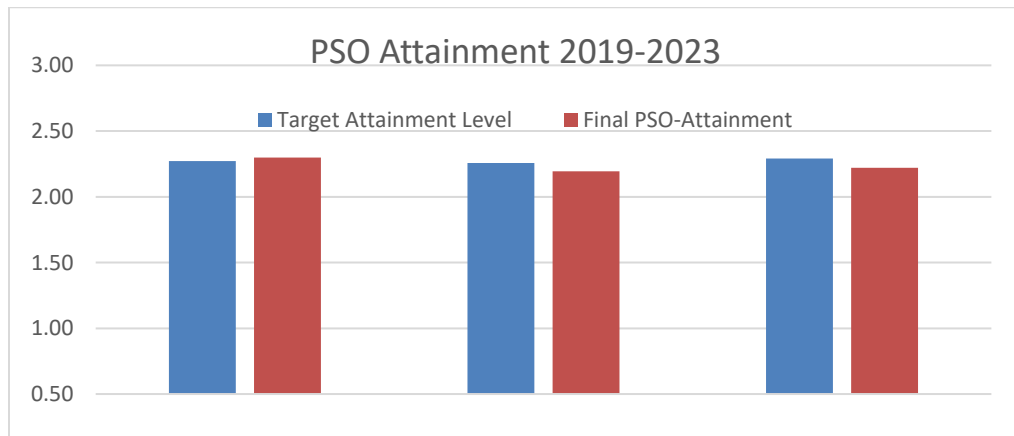


Figure: PO Attainment status for 2019-23 batch

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DEPARTMENT OF MECHANICAL ENGINEERING



Dr. Kishor Rambhad

HOD, Mechanical Engineering