

ANNASAHEB DANGE COLLEGE OF ENGINEERING & TECHNOLOGY, ASHTA

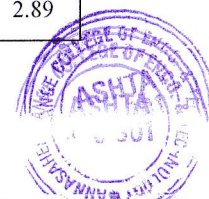
**An Autonomous Institute
DEPARTMENT OF CIVIL ENGINEERING**

CO-PO Attainment of Batch 2017-18 (2017-18 to 2020-21)

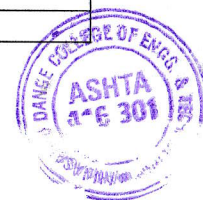
| S.N. | Course | Course Code | Batch 2017-18 | | | | | | | | | | | | | |
|------|----------------------------|-------------|---------------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|
| | | | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 | PO12 | PSO1 | PSO2 |
| 1 | Applied Physics | 0BSBS101 | 1.74 | 1.38 | | | | | | | | | | | | |
| 2 | Applied Maths-I | 0BSBS102 | 1.88 | 0.74 | | | | | | | | | | | | |
| 3 | Basic Electrical | 0BSES103 | 1.39 | 1.24 | | | | | | | | | | | | |
| 4 | Basic Civil | 0BSES104 | 1.75 | 1.85 | | | | | | | | | | | | |
| 5 | Engineering Graphics | 0BSES105 | 2.17 | 1.71 | | | | | | | | | | | | |
| 6 | Professional Communication | 0BSHS106 | | | | | | | | 0.85 | 1.92 | | | | | |
| 7 | Applied Maths-I Tut | 0BSBS107 | 2.38 | 0.89 | | | | | | | | | | | | |
| 8 | Applied Chemistry | 0BSBS108 | 1.7 | 1.56 | | | | | | | | | | | | |
| 9 | Basic Electronics Engg. | 0BSES109 | 1.13 | 0.51 | 0.39 | | | | | | | | | | | |
| 10 | Engineering Mechanics | 0BSES110 | 1.68 | 1.12 | | | | | | | | | | | | |
| 11 | Basic Mechanical Engg. | 0BSES111 | 1.49 | 0.75 | | | | | | | | | | | | |
| 12 | Computer Programming | 0BSES112 | 1.5 | 1.5 | | | | | | | | | | | | |
| 13 | Applied Maths II | 0BSBS113 | 1.5 | 0.84 | | | | | | | | | | | | |
| 14 | Applied Maths II Tut | 0BSBS114 | 1.99 | 0.83 | | | | | | | | | | | | |
| 15 | Workshop Practice | 0BSES151 | 2.22 | 1.32 | | | | | | | | | | | | |
| 16 | Applied Physics Lab | 0BSBS152 | 1.78 | 0.89 | | | 0.84 | | | 0.61 | 0.88 | 0.88 | | | | |
| 17 | Basic Electrical | 0BSES153 | 1.6 | 0.89 | | | | | | | 1.94 | 1.78 | | 1.5 | | |
| 18 | Basic Civil lab | 0BSES154 | 1.77 | 1.77 | | | 1.84 | 2 | | 0.74 | | 1.8 | | | | |
| 19 | Engineering Graphics | 0BSES155 | 1.51 | 1.51 | | | | | | 0.64 | | 1.28 | | | | |
| 20 | Professional Communication | 0BSHS156 | | | | | 1.61 | | | 1.19 | 1.57 | 2.21 | | | | |
| 21 | Basic Electronics Lab | 0BSES157 | 1.75 | 0.88 | 0.88 | | | | | 1.56 | 1.1 | 1.67 | | | | |
| 22 | Applied Chemistry | 0BSBS158 | 1.71 | 0.86 | | | | | 0.7 | 0.86 | 0.84 | 0.86 | | | | |
| 23 | Engineering Mechanics | 0BSES159 | 2.03 | 1.35 | | | | | | 1.79 | | 1.79 | | | | |
| 24 | Basic Mechanical Engg. | 0BSES160 | 2.05 | 0.87 | | | | | | 0.75 | | 0.61 | | | | |
| 25 | Computer Programming | 0BSES161 | 1.67 | 1.67 | | 2.22 | | 1.58 | | 1.58 | | | | 1.58 | | |
| 26 | Applied Mathematics III | 0CVBS201 | 1.85 | 0.9 | | | | | | | | | | | | |
| 27 | Surveying | 0CVPC202 | 2.24 | 2.52 | | | | | | | | | | | | |
| 28 | Fluid Mechanics | 0CVPC203 | 1.85 | 1.83 | 1.81 | | | | | | | | | | | |
| 29 | Strength of Materials | 0CVPC204 | 1.83 | 1.78 | | | | | | | | | | | | |



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|----|--|----------|------|------|------|------|------|------|------|------|------|--|------|------|------|--|
| 30 | Building Construction & Materials | 0CVPC205 | 2.85 | 2.45 | 2.85 | | | | | | | | | | | |
| 31 | Engineering Management | 0CVPC206 | 2.92 | 2 | 1 | | | | | | | | | | | |
| 32 | Structural Analysis | 0CVES207 | 1.95 | 1.95 | | | | | | | | | | | | |
| 33 | Advanced Surveying | 0CVPC208 | 2.95 | 1.85 | 1.75 | | | | | | | | | | | |
| 34 | Building Design & Drawing | 0CVPC209 | 2.85 | 2.25 | 2.47 | | | | | | | | | | | |
| 35 | Concrete Technology | 0CVPC210 | 2.34 | 1.75 | | | | | | | | | | | | |
| 36 | Environmental Studies | 0CVMC211 | 2 | 2 | | | 2 | 1 | 1 | 1 | | | 2 | | | |
| 37 | Surveying Laboratory | 0CVPC251 | 2.85 | 2.26 | 1.85 | | | | | | | | | | | |
| 38 | Fluid Mechanics Laboratory | 0CVPC252 | 2.7 | 2.37 | 1.85 | | | | 2 | 2 | 1.67 | | | | | |
| 39 | Strength of Materials Laboratory | 0CVPC253 | 2.75 | 2.2 | 2.7 | 2.6 | 1.23 | | | | 1.23 | | 1.23 | | | |
| 40 | C Programming Laboratory | 0CVPC254 | 3 | 3 | 3 | | | | | | 1 | | | | | |
| 41 | Building Construction & Materials Laboratory | 0CVPC255 | 2.75 | 2.75 | 2.8 | | | | | 1.23 | | | 1.23 | | | |
| 42 | Introduction to Psychology | 0CVAC256 | | | | | 2.57 | | 2.79 | | | | 2.6 | | | |
| 43 | General Proficiency Laboratory | 0CVHS257 | | | | 1.9 | 2.5 | | 2.8 | 2.6 | 2.5 | | 2.85 | | | |
| 44 | Advanced Surveying Laboratory | 0CVPC258 | 2.52 | | | 1.87 | | | | | 2 | | 2 | | | |
| 45 | Building Design & Drawing Laboratory | 0CVPC259 | 2.2 | 2.3 | 2.3 | 1.5 | 2.65 | | 2.75 | 2 | | | 2 | 2 | 2 | |
| 46 | Concrete Technology Laboratory | 0CVPC260 | 2.3 | 2.65 | 2.65 | 2 | | | | | | | 2 | | | |
| 47 | CAD Practice Laboratory | 0CVPC261 | 2.75 | 2.7 | 2.6 | 2 | | | 2.75 | | | | 0.85 | | | |
| 48 | Design of Steel Structures | 0CVPC301 | 2.26 | 2.35 | 2.35 | 1.57 | | | | | | | | | | |
| 49 | Soil Mechanics | 0CVPC302 | 2.39 | 1.59 | 1.32 | | | | | | | | | | | |
| 50 | Water Supply Engineering | 0CVPC303 | 2.05 | 2.98 | 2.91 | | | | | | | | | | | |
| 51 | Engineering Geology | 0CVES304 | 2.85 | 3 | | | | | | | | | | | | |
| 52 | Infrastructure Engineering | 0CVPC305 | 2.71 | 1.39 | 0.95 | | | | | | | | | | | |
| 53 | Professional Lectures and Skill Practices | 0CVAC306 | 2.85 | 2.85 | 2.85 | | 1.97 | 1.85 | 2.98 | | 2.89 | | 2.89 | 2.89 | 2.89 | |



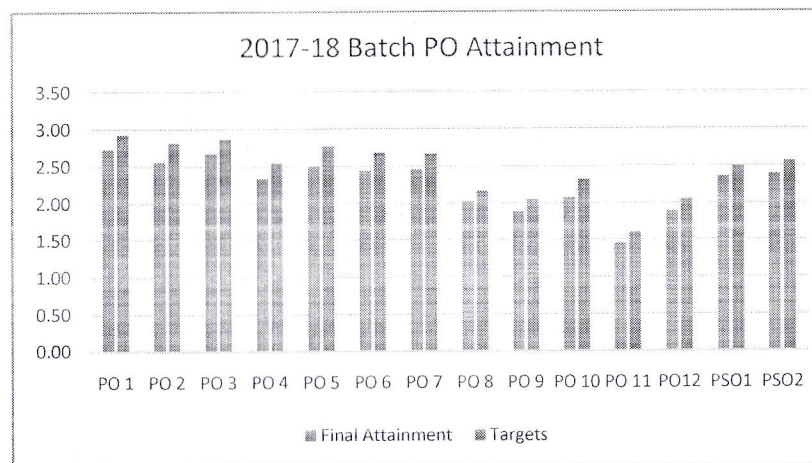
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|----|---|----------|------|------|------|------|------|------|------|------|------|------|--|------|---|---|
| 54 | Theory of Structures | 0CVPC307 | 2.6 | 1.73 | | | | | | | | | | | | |
| 55 | Foundation Engineering | 0CVPC308 | 2.9 | 2.67 | | | | | | | | | | | | |
| 56 | Waste Treatment & Pollution Control | 0CVPC309 | 2.85 | 2.98 | 2.68 | | | | | | | | | | | |
| 57 | Water Resources Engineering | 0CVPC310 | 2.86 | 2.86 | 1.96 | | | | | | | | | | | |
| 58 | Remote Sensing & GIS Applications in Civil Engineering | 0CVPE313 | 2.04 | 2 | | | | | | | | | | | | |
| 59 | Design of Concrete Bridges | 0CVPE314 | 2.8 | 2.85 | | | | | | | | | | | | |
| 60 | Town Planning & Transportation Engineering | 0CVPE316 | 2.83 | 1.49 | | | | | | | | | | | | |
| 61 | Soil Mechanics Laboratory | 0CVPC351 | 2.79 | | | 1.86 | | | | | 1.86 | 2 | | 2 | | |
| 62 | Water Supply Engineering Laboratory | 0CVPC352 | 2.85 | 2.85 | 2.85 | 2.85 | | 2 | | | 2 | | | | | 2 |
| 63 | Engineering Geology Laboratory | 0CVES353 | 2.74 | 1.81 | | | 1.81 | | | 2 | 1.91 | 3 | | 2 | | |
| 64 | Infrastructure Engineering Laboratory | 0CVPC354 | 3 | 2 | 1 | | | 2 | | 3 | | 3 | | 2 | 2 | |
| 65 | Building Planning & Drawing Laboratory | 0CVPC355 | 2.9 | 2.9 | 2.9 | | | | | | 1.33 | | | 1.33 | | |
| 66 | Waste Treatment & Pollution Control Laboratory | 0CVPC357 | 2.85 | 2.85 | 2.85 | 2.85 | | | 2 | | | 2 | | | | 2 |
| 67 | Mini Project (SDD I) | 0CVPR358 | 2 | 2 | 3 | | | | | 2 | 0.3 | 0.3 | | | 2 | 2 |
| 68 | Self Study | 0CVPC359 | 2 | 2 | 3 | | | 2 | 2 | 2 | | 2 | | | | |
| 69 | Soft Computing Skills in Civil Engineering - I | 0CVES360 | 2.91 | 1.94 | | | 1.94 | | | 2 | | 3 | | 2 | | |
| 70 | Remote Sensing & GIS Applications in Civil Engineering Laboratory | 0CVPE363 | 2.49 | 1.83 | | | 1.72 | 1.73 | 1.83 | 2 | 1.91 | 2.74 | | 2 | | |
| 71 | Design of Concrete Bridges Laboratory | 0CVPE364 | 2.6 | 1.98 | 3 | 1 | | | | | 2 | | | 2 | | |
| 72 | Town Planning & Transportation Engineering Laboratory | 0CVPE366 | 3 | 2.57 | 3 | | 2 | 1 | | | 2 | 1 | | | | |
| 73 | Estimating & Costing | 0CVPC401 | 2.42 | 2.33 | | | 0.92 | | | 1.71 | 1.83 | 1.75 | | 1.66 | | |



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|---------------------------|--|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | Industrial Management and Operation Research | [0MEOE409] | 2.29 | 2.93 | | | | 0.93 | | | | | | | | |
| | Electric Vehicles | 0EEOE407 | 2.16 | | | | | | 2.00 | 1.88 | | 1.88 | | | | |
| | Experimental Aerodynamics | 0AEOE404 - | 2.45 | 1.76 | 1.76 | 1.74 | | | | 1.56 | | | | 0.8 | | |
| | Industrial Automation and Robotics | [0MEOE410] | 1.77 | 1.17 | | | | 0.93 | | | | | | | | |
| | Database Essentials and Business Intelligence, | 0CSOE403 | 3 | 2 | | | | | | | | | | | | |
| 74 | Design of Concrete Structures I | 0CVPC402 | 2.96 | 2.54 | 1.95 | | | | | 1.95 | 1.95 | 2.54 | | | | |
| 75 | Earthquake Resistant Structures | 0CVPC403 | 1.69 | 1.69 | 1.95 | 0.98 | 0.84 | | | 0.91 | 0.91 | 0.91 | | 0.83 | | |
| 76 | Repairs & Rehabilitation of Structures | 0CVPE405 | 2.71 | 2.71 | 2.71 | 1.9 | | | | | | | | | | |
| 77 | Advanced Construction Techniques | 0CVPE406 | 2.47 | 0.97 | | | | | | | | | | 0.94 | | |
| 78 | Estimating & Costing - Laboratory | 0CVPC451 | 2.55 | 2.62 | | | 0.91 | | | 1.74 | 1.71 | 1.81 | | 1.52 | | |
| 79 | General Proficiency Laboratory II | 0CVHS452 | 2.31 | | | | | | | 1.54 | 1.54 | 2.54 | | 0.95 | | |
| 80 | Soft Computing Skills in Civil Engineering- II | 0CVES453 | 2.92 | 1.95 | | | 1.95 | | | 1.84 | | 2.84 | | 1.84 | | |
| 81 | Design of Concrete Structures II | 0CVPC421 | 2.97 | 2.85 | 2.85 | 1.9 | | | | 2.85 | 2.85 | 2.85 | | | | |
| 82 | Project Management | 0CVPC422 | 2.68 | 1.79 | 1 | | | | | 1.63 | 1.63 | 1.63 | 1.33 | | | |
| 83 | Entrepreneurship | 0CVPC423 | 2.55 | 2.41 | 1 | | | | | 1.8 | 1.9 | 1.5 | 0.8 | 0.98 | | |
| 84 | Structural Audit | 0CVPE428 | 2.64 | 1.76 | 1.6 | 0.81 | | 0.89 | | 1.74 | 0.87 | 1.74 | | | | |
| 85 | Safety Aspect in Construction | 0CVPE430 | 2.74 | 1.83 | | | | | | 1.54 | 1.24 | 1.54 | | 0.94 | | |
| 86 | Entrepreneurship Laboratory | 0CVPC457 | 2.3 | 1.2 | | | | | | 1.1 | 1.3 | 1.2 | | 0.9 | | |
| 87 | Structural Audit Laboratory | 0CVPE465 | 2.12 | 0.96 | | | 1.92 | | | 1.95 | 1.56 | 1.95 | | 2 | | |
| 88 | Safety Aspect in Construction Laboratory | 0CVPE467 | 2.96 | 1.97 | | | | | | 1.67 | 1.33 | 1.67 | | 1 | | |
| 89 | Mini Project II (SDD II) | 0CVPC458 | 2.78 | 2.75 | 2.75 | | 2.75 | | | 3 | | | | 1.84 | | |
| Direct Attainment Courses | | | 2.35 | 1.91 | 2.18 | 1.83 | 1.75 | 1.69 | 1.63 | 1.78 | 1.59 | 1.83 | 1.07 | 1.63 | 2.22 | 2.18 |
| Direct Attainment Rubrics | | | 3 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | | | | | | 2.16 | 2.30 |



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|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Direct Attainment | 2.67 | 2.45 | 2.59 | 2.41 | 2.37 | 2.34 | 2.31 | 1.78 | 1.59 | 1.83 | 1.07 | 1.63 | 2.19 | 2.24 |
| Indirect Attainment | 3 | 3 | 3 | 2 | 3 | 2.83 | 3 | 3 | 3 | 3 | 3 | 2.86 | 3 | 3 |
| Final Attainment | 2.74 | 2.56 | 2.67 | 2.33 | 2.50 | 2.44 | 2.45 | 2.02 | 1.88 | 2.07 | 1.45 | 1.88 | 2.35 | 2.39 |
| Targets | 2.93 | 2.82 | 2.86 | 2.54 | 2.77 | 2.69 | 2.67 | 2.17 | 2.04 | 2.31 | 1.60 | 2.05 | 2.49 | 2.56 |



Prepared by



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