

**Curriculum for 4 years Bachelor of Mechanical Engineering Degree (BME) at Pulchowk Campus, IOE**

| YEA<br>R | Semester   | SUBJECTS OFFERED                                |  |   |   |  |   |  | Total class hours/week   |
|----------|------------|---|--|---|---|--|---|--|--------------------------|
|          | (15 weeks) |   |  |   |   |  |   |  |                          |
| 1        | 1          | EG 401 SH Mathematics I (3+2+0)                 | EG 402 SH Physics                              | EG 404 SH Communication English I                 | EG 414 ME Engineering Mechanics I (3+1.5+0)               | EG 431 ME Engineering                                  | EG 432 ME Workshop Technology I (1+0+3)     |  | (L+T+P)<br>13+7.5+8=28.5 |
|          | 2          | EG 454 ME Engineering Mechanics II (3+1+0)      | EG 471 SH Mathematics II (3+2+0)               | EG 473 SH Chemistry (3+1+2)                       | EG 474 SH Communication English II (1+3+0)                | EG 475 SH Computer Programming I (2+0+3)               | EG 481 ME Engineering Drawing II (1+0+3)    | EG 482 ME Workshop Technology I (2+0+4)    | 15+7+12=34               |
| 2        | 3          | EG 501 SH Mathematics III (3+2+0)               | EG 504 ME Strength of Materials (3+1+1.5)      | EG 515 ME Thermodynamics I (3+1+1.5)              | EG 529 EE Electrical Circuit I (3+1+3)                    | EG 542 ME Manufacturing & Production Process (3+0+1.5) | EG 549 EX Basic Electronics (3+1+1.5)       |  | 18+6+9=33                |
|          | 4          | EG 551 ME Mechanism (3+1.5+0)                   | EG 552 ME Metrology (2+0+1.5)                  | EG 553 ME Instrumentation & Measurement (3+0+1.5) | EG 555 ME Thermodynamics II (3+1+1.5)                     | EG 575 ME Fluid Mechanics (3+1+1.5)                    | EG 582 ME Metallurgy (3+0+1.5)              | EG 571 SH Probability & Statistics (3+1+0) | 20+4.5+7.5=32            |
| 3        | 5          | EG 601 SH Numerical Methods (3+0+3)             | EG 602 ME Organization & Management (3+2+0)    | EG 605 ME Heat Transfer (3+1+1.5)                 | EG 614 ME Machine Dynamics (3+1+1.5)                      | EG 615 ME Fluid Mechanics (3+1+1.5)                    | EG 624 ME Mechanics of Solids (3+1+1.5)     | EG 629 EE Electric Machine (3+1+1.5)       | 21+7+10.5=38.5           |
|          | 6          | EG 651 ME Machine component Design (3+0+3)      | EG 653 ME Control System (3+1+1.5)             | EG 655 ME Heat Engines (3+1+1.5)                  | EG 665 ME Energy Resources & Combustion Processes (3+1+0) | EG 672 ME Industrial Engineering & Management (3+1+0)  | EG 691 ME Engineering Economics (3+1+0)     |  | 18+5+6=29                |
| 4        | 7          | EG 701 ME Mechanical Engineering Design (1+0+3) | EG 704 ME Automobile Engineering (3+1+1.5)     | EG 705 ME Renewable Energy Utilization (3+1+1.5)  | EG 706 CE Project Engineering (3+1+0)                     | EG 720 ME Industrial Attachment (one month)            | EG 729 CE Technology Env. & Society (3+1+0) | EG 746 ME Elective I* (3+1+1.5)            | 16+5+7.5=28.5            |
|          | 8          | EG 751 ME Computer Aided Design (1.5+0+3)       | EG 754 ME Organic & opposite Materials (3+1+0) | EG 755 ME Pollution Control (3+1+1.5)             | EG 766 CE Engineering Professional Practice (2+0+0)       | EG 776 ME Elective II ** (3+1+1.5)                     | EG 780 ME Project (0+0+6)                   |  | 12.5+3+12=27.5           |

Note: -The figures in the bracket indicate Lecture, Tutorial and Practical class-hours per week respectively. For example: (4+1+2)

