

3.2.1 Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based (10)

- i. An elaborate continuous evaluation system is in place including the following components.
Theory Course: Class Test1, Class Test2, Daily Home Assignments, Daily Class Assignments, Additional Assessment and Attendance for Internal Evaluation and one External End semester examination
Practical Course / Project: PV1, PV2, PV3, RC1, RC2, RC3, Attendance. PVs are Internal mid-term evaluations by Lab Course teacher / Project Supervisor and Departmental Committee and they are followed by an external end-semester examination.
- ii. In a Theory Course the Syllabus is divided into 5 units. The Class Test1 is typically based on the first three units and the Class Test2 is based on Units 3 to 5. These two reflect the performance in the corresponding units. Similarly DHA1 is based on the Daily Home Assignment1 is typically based on the performance in the DHAs and DCAs upto the CT1 and DHA2 is based on the performance in these evaluations after CT2. Typically 10 DHAs and 5 DCAs are there in each phase. These ensure regularity in the learning process and also ensure that the student gets a regular feedback on the performance in each course.
- iii. The Daily Assignments being in a sense of punctuality and regularity and inculcate in the student a habit of meeting daily targets which stand them in good stead when they join the industry because that is exactly what the industry demands.
- iv. The End-Semester is completely transparent to the Department and is conducted by an external Examiner unknown to the Department out of the panel constituted for the same with inputs from the Department. The performance on all five units of the syllabus is checked in the End-semester examination because the student has to answer one question from each unit.
- v. The Lab evaluation is also done on a regular basis. Lab records are to be submitted on the next turn describing the work done on the previous turn. Credit is given for performance and regularity. An A Grade in Lab assessment indicates regular and good performance in terms of submissions and viva examinations.
- vi. Similarly in the Projects the regularity and performance in the Departmental evaluation is considered apart from the evaluation of the Supervisor. Students are encouraged to produce Research Papers / working projects and demonstratable results and credit is given to them. An A grade in a Project typically indicates one or more of these outcomes.
- vii. An attempt has been made to analyze the marks obtained in various tests and examinations and find out the learning outcomes from the level of achievement in these tests and examinations and assignments. Marks obtained by the students in the various components in each course are available on the Course Monitoring System. Marks have been obtained from there and have been analyzed to determine the learning outcomes.

1.2.1. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65)

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|-----------|-----|-----|-----|-----|-----|
| Course No | CO1 | CO2 | CO3 | CO4 | CO5 |
|-----------|-----|-----|-----|-----|-----|

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|--------|---|---|---|---|---|
| BOH181 | 2 | 2 | 1 | 2 | - |
| CHM181 | 2 | 2 | 2 | 2 | 2 |
| CHM182 | 3 | 3 | 3 | 3 | 3 |
| DPH101 | 3 | 3 | 3 | 3 | 3 |
| ENH181 | 3 | 3 | 1 | 3 | 0 |
| MAM181 | 2 | 2 | 2 | 2 | 2 |
| MEM101 | 1 | 1 | 0 | 1 | 1 |
| MEM102 | 3 | 3 | 3 | 3 | 3 |
| MEM103 | 3 | 3 | 3 | 3 | 3 |
| MEM104 | 3 | 3 | 3 | 3 | - |
| PHM181 | 1 | 1 | 0 | 1 | 0 |
| PHM182 | 3 | 3 | 3 | - | - |
| RDC181 | 3 | 3 | 3 | 3 | 3 |
| RDC182 | 3 | 3 | 3 | 3 | 3 |
| CAC281 | 3 | 3 | - | - | - |
| EEM201 | 2 | 2 | 2 | 2 | 2 |
| EEM202 | 1 | 1 | 1 | 1 | 1 |
| EGC281 | 3 | 3 | 3 | 3 | 3 |
| ESC281 | 3 | 3 | 3 | 3 | 3 |
| MAM281 | 2 | 2 | 1 | 2 | 0 |
| MEM201 | 1 | 1 | 0 | 1 | 0 |
| MEM202 | 2 | 2 | 2 | 2 | 2 |
| MEM203 | 3 | 3 | 3 | 3 | 3 |
| MEM204 | 3 | 3 | 3 | 3 | 3 |
| PHM281 | 1 | 1 | 0 | 1 | 0 |
| PHM282 | 1 | 1 | 0 | 1 | - |
| RDC281 | 3 | 3 | 3 | 3 | 3 |
| RDC282 | 3 | 3 | 3 | 3 | 3 |
| EEM301 | 3 | 3 | 3 | 3 | 3 |
| EEM302 | 3 | 3 | 3 | 3 | - |
| EEM303 | 1 | 1 | 2 | 1 | 2 |
| EEM304 | 3 | 3 | 3 | 3 | 3 |
| EEM305 | 3 | 3 | 3 | 3 | 3 |
| EGC381 | 3 | 3 | 3 | 3 | 3 |
| EGC382 | 3 | 3 | 3 | 3 | - |
| ENH381 | 3 | 3 | 3 | 3 | 3 |
| MAM381 | 3 | 3 | 3 | 3 | 3 |
| MEM301 | 2 | 2 | 3 | 2 | 3 |
| MEM307 | 3 | 3 | 3 | 3 | 3 |
| MEM308 | 3 | 3 | 2 | - | - |
| CCA481 | 3 | 3 | - | - | - |
| eem401 | 3 | 3 | 3 | 3 | 3 |
| EEM402 | 3 | 3 | 3 | - | - |

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|--------|---|---|---|---|---|
| EEM403 | 2 | 2 | 2 | 2 | 3 |
| EEM404 | 3 | 2 | 3 | - | - |
| EEM405 | 3 | 3 | 3 | 3 | 3 |
| EEM406 | 3 | 3 | 3 | 3 | 2 |
| EEM407 | 3 | 3 | 2 | 3 | 0 |
| EEW401 | 3 | 3 | 3 | 3 | - |
| EEW402 | 3 | 3 | 3 | 3 | - |
| EEW403 | 3 | 3 | 3 | - | - |
| EGC481 | 3 | 3 | 3 | 3 | 3 |
| ENH481 | 3 | 3 | 3 | 3 | 3 |
| GKC481 | 3 | 3 | 3 | 3 | 3 |
| MAM481 | 3 | 3 | 3 | 3 | 3 |
| MEM401 | 3 | 3 | 3 | 3 | 3 |
| CRC581 | 3 | 3 | 3 | 3 | 3 |
| EEM501 | 3 | 3 | 3 | 3 | 3 |
| EEM502 | 3 | 3 | 3 | - | - |
| EEM503 | 3 | 3 | 3 | 3 | 2 |
| EEM504 | 3 | 3 | 3 | 2 | 3 |
| EEM505 | 1 | 1 | 3 | 1 | 3 |
| EEM506 | 2 | 2 | 3 | 2 | 3 |
| EEM511 | 3 | 3 | 3 | 3 | 3 |
| EEM512 | 3 | 3 | 3 | - | - |
| EEM513 | 3 | 3 | 3 | 3 | 3 |
| EEM514 | 3 | 3 | 3 | 2 | 3 |
| EGC581 | 3 | 3 | 3 | 3 | 3 |
| EGC582 | 3 | 3 | 3 | 3 | - |
| GKC581 | 3 | 3 | 3 | 3 | 3 |
| MAM581 | 3 | 3 | 3 | 3 | 3 |
| PYH581 | 2 | 2 | 3 | 2 | 0 |
| RDC581 | 3 | 3 | 3 | 3 | 0 |
| ASM601 | 3 | 3 | 3 | 3 | 2 |
| CAC681 | 3 | 3 | - | - | - |
| CEC681 | 3 | 3 | 3 | 3 | 3 |
| EEM601 | 2 | 2 | 2 | 2 | 2 |
| EEM602 | 3 | 3 | 3 | - | - |
| EEM603 | 3 | 3 | 3 | 3 | 3 |
| EEM604 | 3 | 3 | 3 | 3 | 3 |
| EEM605 | 3 | 3 | 3 | 3 | 2 |
| EEM606 | 3 | 3 | 3 | 2 | 3 |
| EEM609 | 3 | 3 | 3 | 3 | 3 |
| EEM611 | 3 | 3 | 3 | 3 | 2 |
| EEM612 | 2 | 3 | 3 | 2 | 3 |
| EGC681 | 3 | 3 | 3 | 3 | 3 |

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|--------|---|---|---|---|---|
| MAM681 | 3 | 3 | 3 | 3 | 3 |
| RDC681 | 3 | 3 | 3 | 3 | 3 |
| EEM701 | 2 | 2 | 2 | 2 | 0 |
| EEM702 | 3 | 3 | 3 | 3 | 3 |
| EEM703 | 3 | 3 | 3 | 3 | 2 |
| EEM704 | 1 | 1 | 1 | - | - |
| eem705 | 3 | 3 | 3 | - | - |
| EEM706 | 1 | 1 | 1 | 1 | 0 |
| EEM708 | 3 | 3 | 3 | - | - |
| EEM710 | 3 | 3 | 0 | 2 | - |
| EEM711 | 3 | 1 | 3 | 3 | 3 |
| EEM717 | 3 | 3 | 3 | 3 | 1 |
| EEM719 | 3 | 3 | 3 | 3 | 0 |
| EEM720 | 3 | 3 | 3 | 3 | 0 |
| EEM722 | 3 | 3 | 2 | 3 | 0 |
| EEM723 | 3 | 3 | 3 | - | - |
| EGC781 | 3 | 3 | 3 | 3 | 3 |
| GKC781 | 3 | 3 | 3 | 3 | 3 |
| MEM708 | 3 | 3 | 3 | 3 | 2 |
| RDC781 | 3 | 3 | 3 | 3 | 3 |
| CAC881 | 3 | 3 | 3 | 3 | 3 |
| EEM801 | 3 | 3 | 2 | 3 | 0 |
| EEM802 | 3 | 3 | 3 | - | - |
| EEM803 | 3 | 3 | 3 | - | - |
| EEM812 | 2 | 2 | 3 | 2 | 2 |
| EEM814 | 1 | 1 | 1 | 1 | 0 |
| EEM815 | 2 | 2 | 2 | 2 | 0 |
| EEM817 | 2 | 2 | 2 | 2 | 2 |
| EEM820 | 1 | 1 | 2 | 1 | 2 |
| EEM821 | 3 | 3 | 3 | 3 | 3 |
| EEM826 | 3 | 3 | 3 | 3 | 3 |
| GKC881 | 3 | 3 | 3 | 3 | 3 |
| MEM801 | 3 | 3 | 3 | 3 | 0 |
| MEM809 | 3 | 3 | 3 | 3 | 3 |
| MEM812 | 3 | 3 | 3 | 3 | 1 |
| RDC881 | 3 | 3 | 3 | 3 | 3 |