

Geethanjali College of Engineering and Technology (Autonomous)

Cheeryal (V), Keesara (M), Medchal Dist. 501301

Attainment of Course Outcomes of First year courses

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year

(Example of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams, assignments, presentations, tutorial sheets etc.)


Procedure for measuring the attainment of Course Outcomes (Cos) (From Academic Year 2022-2023 onwards)

For measuring the attainment of COs of a theory course, the **targets** for the attainment are fixed as indicated below:

- **Mid Paper -Subjective:** 60% of maximum marks
- **Assignments and Tutorials** (if any): 60% of maximum marks (3 marks out of 5)
- **Mid Paper -Objective:** 60% of maximum marks (6 marks out of 10) (Should consider all the students who attended the exam)
- **Semester End Examination:** 60% of maximum marks
- With the above fixed target levels, the attainment levels are specified as follows:

Semester End Exam Target is 60% of Max Marks	
Level 1	If 50% to 59% of Students attain the Average Marks
Level 2	If 60% to 69% of Students attain the Average Marks
Level 3	If more than 69% of Students attain the Average Marks

Mid-term Exams – Subjective, Objective and Assignments Target is 60% of Max Marks	
Level 1	If 60% to 69% of students attain the target
Level 2	If 70% to 79% of students attain the target
Level 3	If more than 80% of students attain the target


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1. For Theory courses, in measuring the overall course attainment,

- 80% weightage is given for the direct measurement that includes attainments in mid-term examinations (both subjective and objective), semester end examinations, assignments and tutorials.
and
- 20% weightage is given for the Indirect measurement that includes Students' online feedback on TLP (10% weightage) and Course End Survey (10% weightage).

1.1. In the Direct Attainment

- 50% weightage is given for the Semester End Examination and
- 50% weightage is given for the internal marks that includes
 - Mid-term examinations subjective (20%),
 - Mid-term examinations objective (10%),
 - Assignments (10%) and
 - Projects and Presentations (10%).

1.2. Both mid-1 and mid -2 should be considered together in measuring the attainment levels.

Direct Attainment of CO =

0.2* Mid-term Subjective + 0.1* Mid-term Objective + 0.1* Assignment + 0.1* Projects + 0.5* End Sem. Exam

Indirect Attainment of CO = 0.5* Course End Survey + 0.5* Feedback on TLP

Overall CO Attainment = 0.8* Direct Attainment Level + 0.2* Indirect Attainment Level

2. In the case of laboratory courses, 60% of marks awarded in internal (Mid Term) examinations and 40% of the marks awarded in semester End Examination are considered for attainment calculation.

Internal Attainment of CO = 0.15*Day to Day+0.1*Viva-Voce+0.1*Internal Practical Exam+0.25*Laboratory Project

Direct Attainment of CO = 0.6*Internal+ 0.4* End Semester Exam

Indirect Attainment of CO = 0.5* Feedback on TLP +0.5* CRC feedback

Overall CO Attainment = 0.8* Direct Attainment Level + 0.2* Indirect Attainment Level

Level

NOTE:

- In the Mid Term or End semester Examinations of a particular Theory course, the question paper comprises two questions Question1 (Q1) or Question2 (Q2) from each unit of the syllabus.
- Each of the two may have sub parts also.
- A Student is supposed to answer any three out of six questions in case of mid-term examinations.
- The students who attempted questions based on COs will be considered for mid-term examinations.

For End Term Examinations

Case 1: If Student answers both Q1 and Q2, then the question awarded with more marks between the two will be considered for the calculation of attainment, making other one as 'NA' (Not Applicable).


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Case 2: If Student fails to answer both Q1 and Q2, then one of the questions will be awarded zero marks (0) and other as 'NA'.

➤ If student answers a question having two sub parts (a) and (b),

Case 1: If both (a) and (b) are mapped to same CO, the total marks awarded for that question will be sum of the marks allotted for (a) and (b) and will be considered for the calculation of attainment.

Case 2: If student answers any of the parts of a question only, the remaining unanswered part/s of the question will be awarded zero (0) marks.

**Procedure for measuring the attainment of Course Outcomes (Cos)
(From Academic Year 2019-2020 onwards)**

For measuring the attainment of COs of a theory course, the **targets** for the attainment are fixed as indicated below:

- **Mid Paper -Subjective:** 60% of maximum marks
- **Assignments and Tutorials** (if any): 60% of maximum marks (3 marks out of 5)
- **Mid Paper -Objective:** 60% of maximum marks (6 marks out of 10) (Should consider all the students who attended the exam)
- **Semester End Examination:** 60% of maximum marks
- With the above fixed target levels, the attainment levels are specified as follows:

Semester End Exam Target is 60% of Max Marks	
Level 1	If 40% to 49% of Students attain the Average Marks
Level 2	If 50% to 59% of Students attain the Average Marks
Level 3	If more than 59% of Students attain the Average Marks

Mid-term Exams – Subjective, Objective and Assignments Target is 60% of Max Marks	
Level 1	If 60% to 69% of students attain the target
Level 2	If 70% to 79% of students attain the target
Level 3	If more than 80% of students attain the target

1. For Theory courses, in measuring the overall course attainment,

- 75% weightage is given for the direct measurement that includes attainments in mid-term examinations (both subjective and objective), semester end examinations, assignments and tutorials.

and


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- 25% weightage is given for the Indirect measurement that includes Students' online feedback on TLP (10% weightage), CRC (10% weightage) and Course End Survey (5% weightage).

1.1. In the Direct Attainment

- 60% weightage is given for the Semester End Examination and
- 40% weightage is given for the internal marks that includes
 - Mid-term examinations subjective (20%),
 - Mid-term examinations objective (10%),
 - Assignments (5%) and
 - Tutorials (5%).
 - If tutorials are not conducted in any course, a total of 10% weightage will be given to Assignments only.

1.2. Both mid-1 and mid -2 should be considered together in measuring the attainment levels.

Direct Attainment of CO = 0.2* Mid-term Subjective + 0.1* Mid-term Objective + 0.05* Assignment + 0.05* Tutorial+ 0.6* End Sem. Exam

Indirect Attainment of CO = 0.2* Course End Survey + 0.4* Feedback on TLP +0.4*CRC (Class review Committee) feedback

Overall CO Attainment = 0.75* Direct Attainment Level + 0.25* Indirect Attainment Level

2. In the case of laboratory courses, 60% of marks awarded in internal (Mid Term) examinations and 60% of the marks awarded in semester End Examination are considered for attainment calculation.

Direct Attainment of CO = 0.4* Mid-term Exam + 0.6* End Semester Exam

Indirect Attainment of CO = 0.2* Course End Survey + 0.4* Feedback on TLP +0.4*CRC feedback

Overall CO Attainment = 0.75* Direct Attainment Level + 0.25* Indirect Attainment Level

NOTE:

- In the Mid Term or End semester Examinations of a particular Theory course, the question paper comprises two questions Question1 (Q1) or Question2 (Q2) from each unit of the syllabus, with internal choice.
- Each of the two may have sub parts also.
- A Student is supposed to answer either Q1 or Q2.

Case 1: If Student answers both Q1 and Q2, then the question awarded with more marks between the two will be considered for the calculation of attainment, making other one as 'NA' (Not Applicable)

Case 2: If Student fails to answer both Q1 and Q2, then one of the questions will be awarded zero marks (0) and other as 'NA'.

- If student answers a question having two sub parts (a) and (b),

Case 1: If both (a) and (b) are mapped to same CO, the total marks awarded for that question will be sum of the marks allotted for (a) and (b) and will be considered for the calculation of attainment.

Case 2: If student answers any of the parts of a question only, the remaining unanswered part/s of the question will be awarded zero (0) marks.