BML Munjal University

A Hero GROUP INITIATIVE

SCHOOL OF ENGINEERING & TECHNOLOGY

COURSE FILE

Program: Computer Science Engineering
Course Code: CSE4010
Course Title: Blockchain
Module Semester: ddsddss
Session: 2021-202

Index

15.	Interventions made for low performers and advanced learners, highlighting initiatives taken for student improvements (retest, resubmissions etc.)
16.	End Semester Question papers with sample solutions
17.	Details of Marks in all components up to the End Semester including the grades
18.	Identification of advanced learners and low performers conducted at the end of the semester
19.	Attendance Report
20.	CO attainment analysis with the reflection on feedback on course outcomes
21.	Feedback (class committee or otherwise) and corrective actions (if any)
22.	Faculty Course Review (if any, like Use of Innovative Pedagogies; Technology; Experiential Learning; Integration with the Vision and Mission of the University; Feedback; Course Outcome attainment for the next run of the course)
23.	Any other additional information

1. Course Details

- **Course Code:** CSE4010
- **Course Title:** Blockchain
- **Module/Semester: ddsddss**
- **Session:** 2021-202

2. Vision, Mission of the University

Vision

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organizations to success. The university shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards.

Mission

BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative and stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in the global context.

3. Graduate Attributes

- Acquire and apply practical understanding of discipline knowledge.
- Demonstrate a sense of ethics and display excellence in both personal and professional life.
- Exhibit problem solving, critical thinking skills and investigative capability to address real world problems.
- Manifest leadership qualities and work effectively in teams across globally diverse environments.
- Be a lifelong learner with an entrepreneurial mindset to innovate in the constantly changing global scenario.
- Possess a strong sense of inquiry and design innovative solutions for positive societal impact.
- Be effective communicators and possess an empathetic outlook.

4. Vision, Mission of the School

Vision of School:

To be amongst the leading engineering schools of the country recognized globally for excellence in teaching and research with focus on experiential learning, innovation and entrepreneurship.

Mission of School:

Providing high-quality learning experience to our students, preparing them to be global leaders, and contributing to the development of society through research, innovation, and entrepreneurship.
Creating an inclusive and diverse learning environment that fosters creativity, critical thinking, and ethical values.

Collaborating with industry, government, and other institutions to address complex societal challenges and promote sustainable development.

5. PEOs and POs & PSOs of the Program

Program Educational Objectives (PEO):

PEO 1: Identify real-life problems and develop creative and innovative hardware/software-based solutions.

PEO 2: Achieve professional development through self-learning to adapt to the technological changes in the ever changing field of computing.

PEO 3: Engage in life-long learning of computer engineering technologies, critical thinking and continuous ingenuity and apply them in real-life applications.

PEO 4: Accomplish leadership roles by imbibing ethics and professionalism with emphasis on sustainable development of the society.

Program Outcomes (PO):

PO1: Apply the foundational concepts of mathematics, science and computer engineering to find novel solutions for complex real-life engineering problems.

PO2: Identify, formulate, review literature and analyze complex computer engineering problems reaching substantiated conclusions and derive a coherent logic that can be implemented by computers.

PO3: Design analytical and computational models for solving complex engineering problems giving due consideration to issues related to public health and safety, cultural and societal constraints, and environmental concerns.

PO4: Use research-based knowledge, methods, tools and techniques for data collection, designing digital computing systems, analyzing and interpreting the results to provide substantiated conclusions.

PO5: Use appropriate tools to model complex computer engineering problems through identification of the limitations and creating solutions to predict the real-world phenomena.

PO6: Use appropriate contextual knowledge of computer engineering to review and assess societal, health, legal, cultural, safety and contemporary issues and rationalize the ensuing responsibilities towards the society.

PO7: Adopt computer engineering practices in congruence with societal need, understand the working practices and its impact on natural resources for sustainable development.

PO8: Use ethical principles to pursue excellence in developing computer engineering systems and behave appropriately to develop a reliable and trustworthy relationship with others.

PO9: Function effectively as a reliable and responsible individual, and as a member or leader in diverse computer engineering teams, and in multidisciplinary settings, thereby placing team goals ahead of individual interests.

PO10: Communicate effectively by capturing the desirable computer system requirements for preparation of specification documents, write clear and concise report such as laboratory files, research papers, thesis, and presentation materials.

PO11: Demonstrate knowledge of computer engineering and management principles for the completion of individual or group projects in multidisciplinary environments.

PO12: Recognize the evolving technological changes and engage as an independent and life-long learner

in both computing and non-computing fields.

Program Specific Outcomes (PSO):

PSO1: Identify applicable tools and techniques related to data science practice such as data collection, cleaning, analysis, modelling, evaluation and result interpretation and apply them for deriving hidden and meaningful patterns for appropriate actionable insights.

PSO2: Develop intelligent systems for various real-life domains like healthcare, transportation, finance etc. using Artificial Intelligence methodologies.

PSO3: Understand the foundational concepts and techniques to protect computing systems against constantly evolving cybersecurity threats and analyze security breaches and violations of cyber systems and networks to provide appropriate solutions.

PSO4: Design effective security systems to mitigate risks, threats and vulnerabilities for protecting the organizations against cyber threats.

6. Course Description and its objectives

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organizations to success. The university shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards. BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative and stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in the global context.

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organizations to success. The university shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards. BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative and stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in the global context.

7. Course Outcomes and CO-PO Mapping

Course Outcomes:

CO1:

CO/PO Mapping:

Course Outcomes (CO)	CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

8. Detailed Session wise Plan & Course Syllabus

Sr. No.	Content	CO	Sessions
1	Topic Name with Details	1	1

Learning Resources

Text Books:

Reference Links:

9. Weekly Timetable

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:15-10:10					
10:15-11:10					
11:15-12:10					
12:15-13:10					
13:15-14:10					
14:15-15:10					
15:15-16:10					
16:15-17:10					
17:15-18:10					

10. Registered Students List

Sr.No	Unique Id.	Student Name
1	230768	Akshat Rawat
2	230972	Arepalli Yagnesh Sri Sai
3	240714	Karan Singh
4	230764	Vivek
5	230765	Samarth Sharma
6	230766	Shubham Patel
7	230915	Harsh Yadav
8	230844	Shruti Negi
9	230864	Karmanya Bhalla
10	230872	Diksha Balodi
11	230937	Ajay Teli

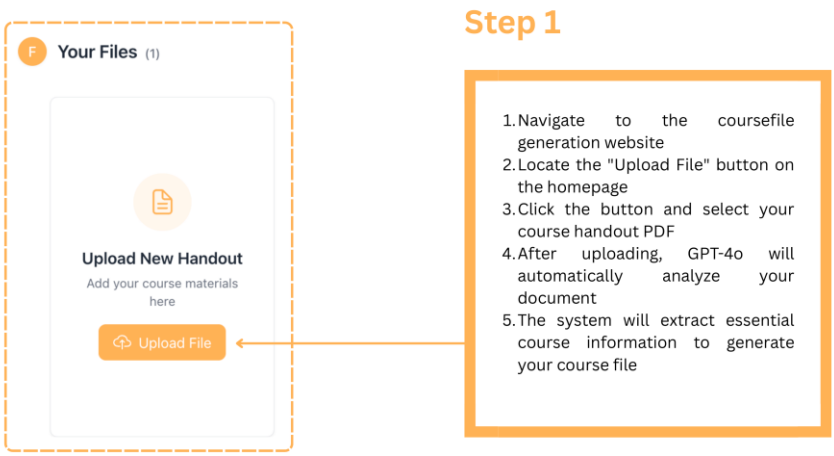
11. Details of Internal Assessment, weightages and remarks

Component	Weightage	Evaluationweek	Remarks
324234fdvdf	342	r4	343

12. Mid-Semester/ Internal Assessment Question papers with sample solutions

Course File Generation Tutorial

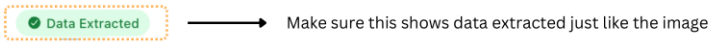
Three Step guide

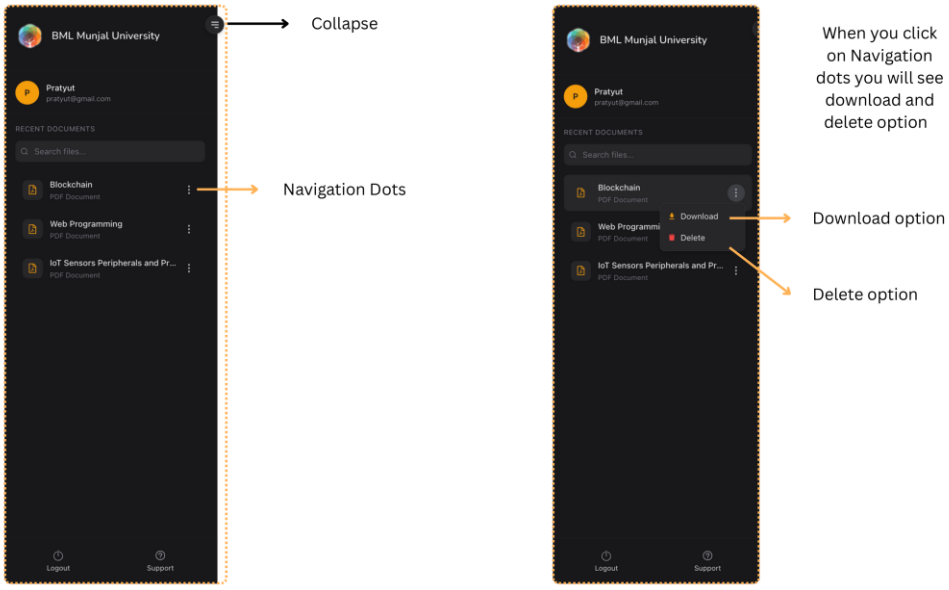


IMPORTANT: Ensure your PDF contains textual data only

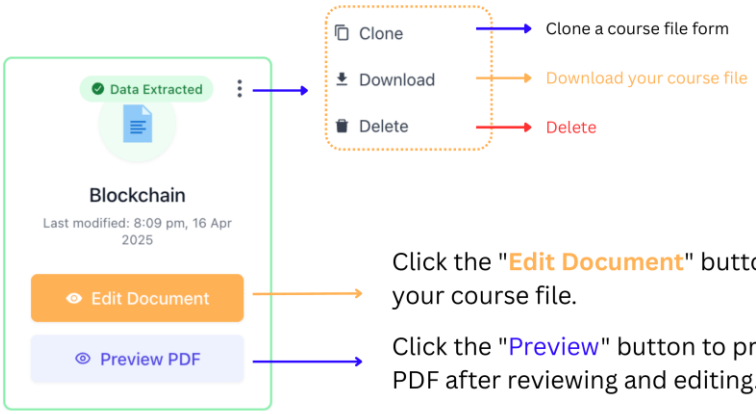
After successful extraction, you'll see a box with several options:

- Edit Document – Enables you to modify the contents of your course file.
- Note: Ensure that data extraction is complete before clicking "Edit Document." A status field will indicate whether the data has been extracted.
- Preview – Allows you to view the course file without downloading it.
- More Options (Three Dots) – Provides additional actions: Clone, Download, or Delete the course file.



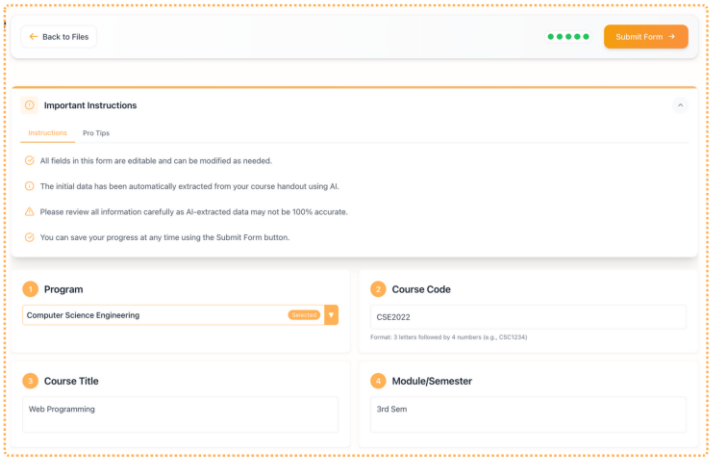


Step 2: Review and Edit Extracted Content



Click the "**Edit Document**" button to modify your course file.

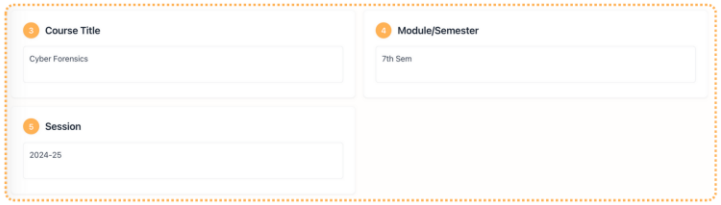
Click the "**Preview**" button to preview your course file PDF after reviewing and editing.



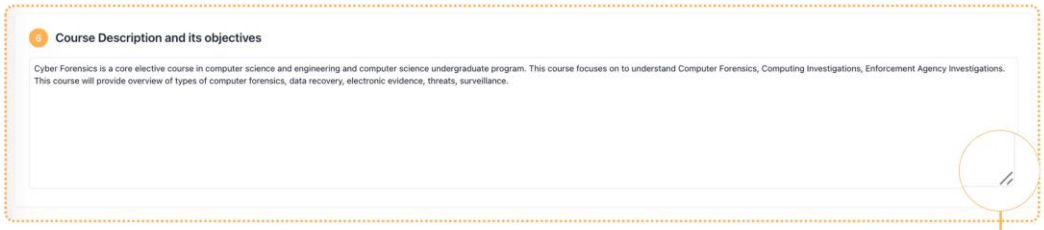
After clicking the "Edit Document" button, you'll be taken to a page similar to this.

Select your program for the current course file from the available options.

Review the course code extracted by the AI to ensure its accuracy. If it is incorrect, you can edit it manually.

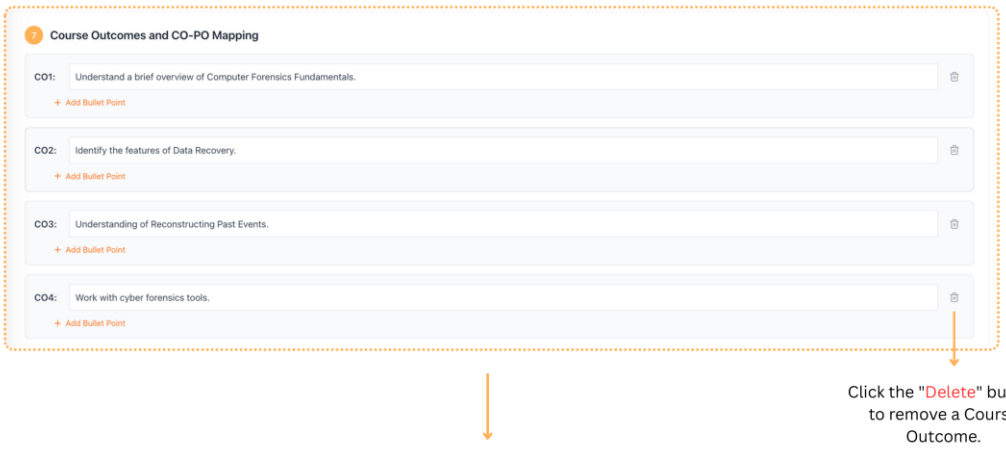


Review the extracted details for the other three fields as well. If any information is incorrect, you can edit it manually.



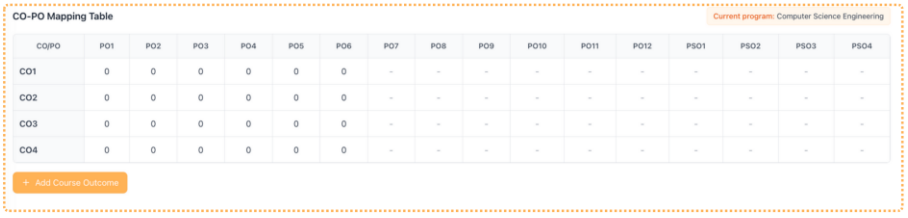
Review the extracted course description for accuracy. If needed, you can edit it manually.

Slide this icon to adjust the container size as per your convenience.



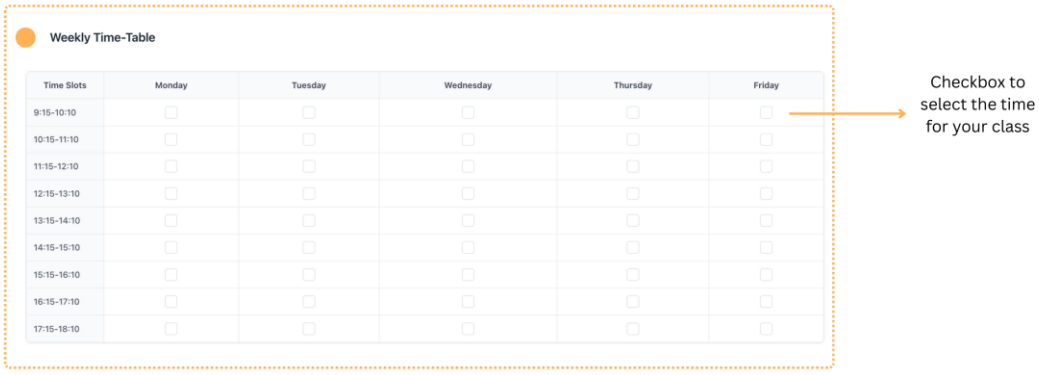
Click the "Delete" button to remove a Course Outcome.

Carefully review and edit the Course Outcomes. You can also add bullet points as needed by clicking the "**+ Add Bullet Point**" button.



This table may not be extracted properly by the model, so you will need to fill it manually. Carefully review the information after entering it. You can also add more Course Outcomes as needed by clicking the **"+ Add Course Outcomes"** button.

Carefully review the assessments, their weightages, and due dates. If you find any discrepancies, you can edit them as needed.



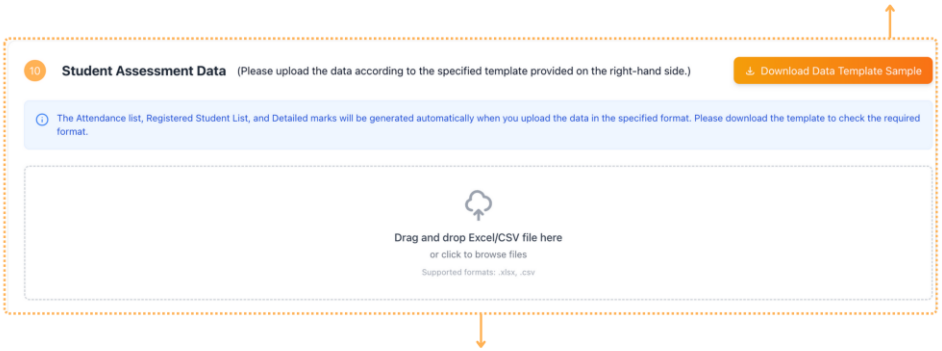
Note: This timetbale is for Other programs excluding MBA

For MBA and BBA MBA Integrated

Add class button to add new class

Select the Day , Start hour and duration

First, download the sample file and review its format to understand how to upload your student assessment data correctly.



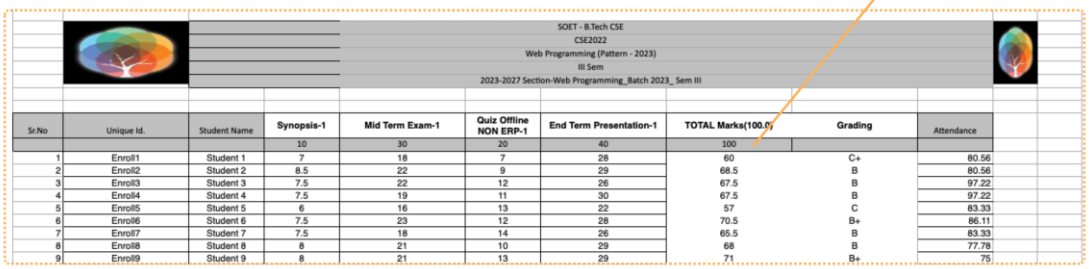
Here, you can drag and drop your Excel file or click on the upload area to select and upload your data.

Click "Show All Rows" to display the complete student data.

After uploading the Excel file, this field will display a data preview of the assessments extracted from the file. This data is essential for the next steps, so carefully upload the file and review the extracted information.

Proper Excel format

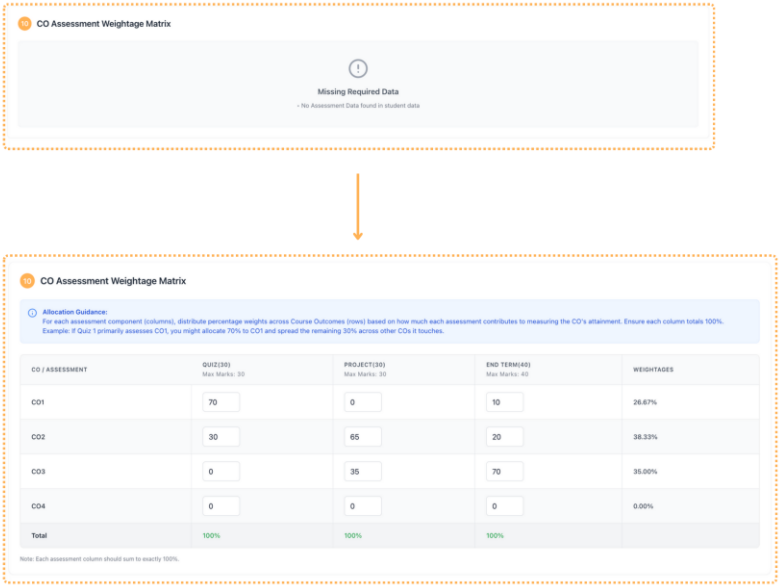
Make sure the Total Marks should be 100



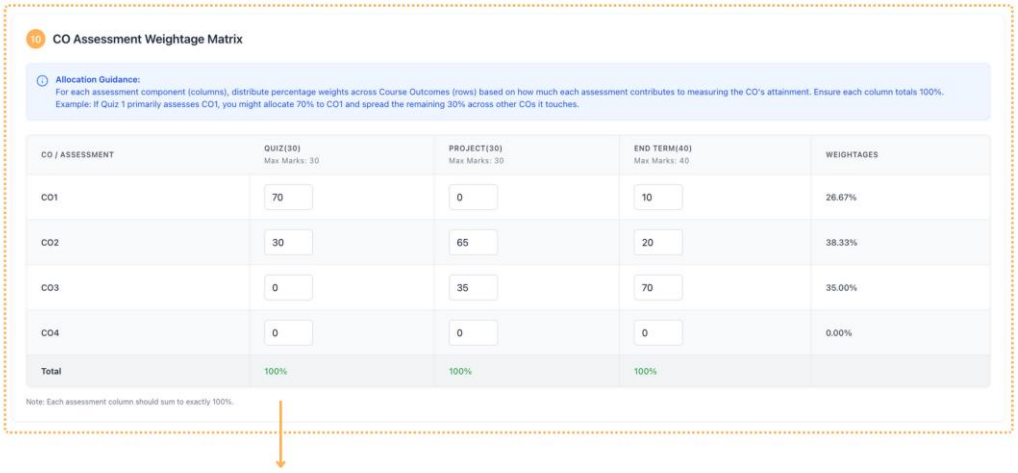
SOET - B.Tech CSE
CSE2022
Web Programming (Pattern - 2023)
III Sem
2023-2027 Section-Web Programming_Batch 2023_ Sem III

Sr.No	Unique Id.	Student Name	Synopsis-1	Mid Term Exam-1	Quiz Offline NON ERP-1	End Term Presentation-1	TOTAL Marks(100.0)	Grading	Attendance
			10	30	20	40	100		
1	Enroll1	Student 1	7	18	7	28	60	C+	80.56
2	Enroll2	Student 2	8.5	22	9	29	68.5	B	80.56
3	Enroll3	Student 3	7.5	22	12	26	67.5	B	97.22
4	Enroll4	Student 4	7.5	19	11	30	67.5	B	97.22
5	Enroll5	Student 5	6	16	13	22	57	C	83.33
6	Enroll6	Student 6	7.5	23	12	28	70.5	B+	86.11
7	Enroll7	Student 7	7.5	18	14	26	65.5	B	83.33
8	Enroll8	Student 8	8	21	10	29	68	B	77.78
9	Enroll9	Student 9	8	21	13	29	71	B+	75

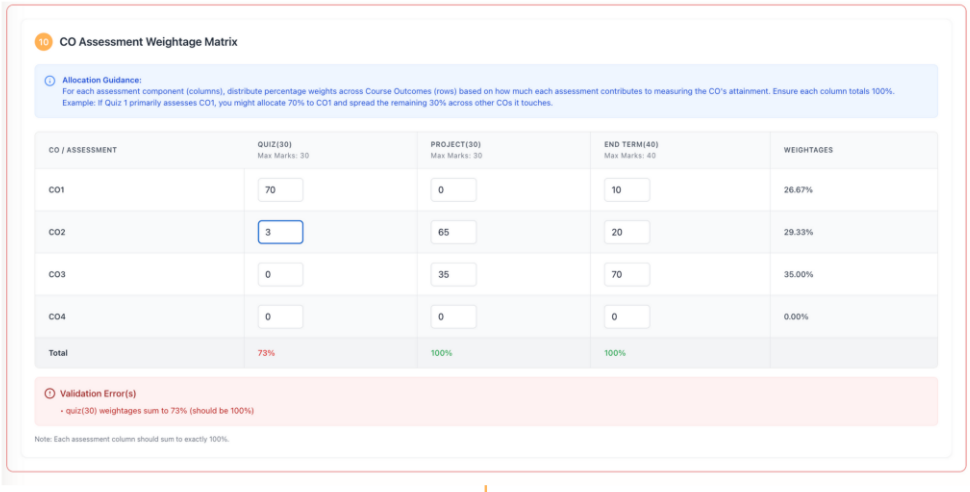
Note: The course file downloaded from Maitri does not include “100” in the row below the Total Marks column header. You will need to manually enter 100 beneath the "Total Marks" column to reflect the maximum score.



After you upload the excel file this field will go "missing data" to a **matrix** and then you will need to assign every CO a weightage according to the assessment



Note: Make sure the Column wise total should be equal to 100% for every assessment



10 CO Assessment Weightage Matrix

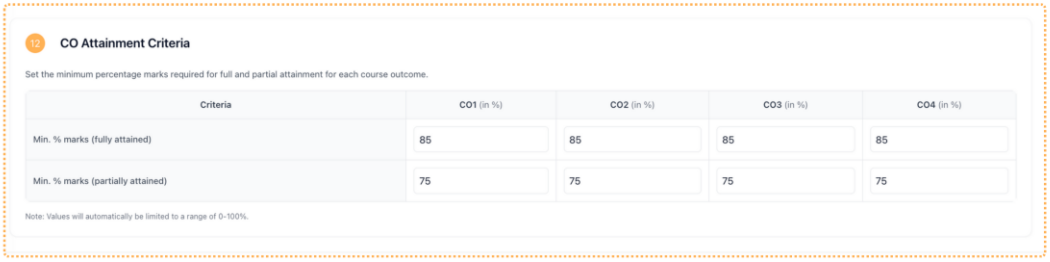
Allocation Guidance:
For each assessment component (columns), distribute percentage weights across Course Outcomes (rows) based on how much each assessment contributes to measuring the CO's attainment. Ensure each column totals 100%.
Example: If Quiz 1 primarily assesses CO1, you might allocate 70% to CO1 and spread the remaining 30% across other COs it touches.

CO / ASSESSMENT	QUIZ(30) Max Marks: 30	PROJECT(30) Max Marks: 30	END TERM(40) Max Marks: 40	WEIGHTAGES
CO1	70	0	10	26.67%
CO2	3	65	20	29.33%
CO3	0	35	70	35.00%
CO4	0	0	0	0.00%
Total	73%	100%	100%	

Validation Error(s)
- quiz(30) weightages sum to 73% (should be 100%)

Note: Each assessment column should sum to exactly 100%.

If the column-wise total does not add up to 100%, a **"Validation Error"** will appear, the entire box will be marked red, and you will not be able to submit your data.



12 CO Attainment Criteria

Set the minimum percentage marks required for full and partial attainment for each course outcome.

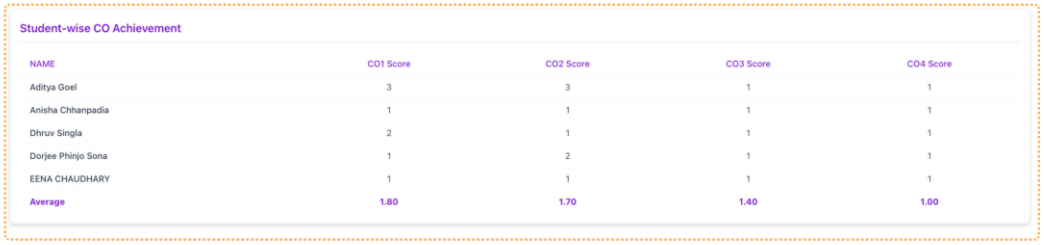
Criteria	CO1 (in %)	CO2 (in %)	CO3 (in %)	CO4 (in %)
Min. % marks (fully attained)	85	85	85	85
Min. % marks (partially attained)	75	75	75	75

Note: Values will automatically be limited to a range of 0-100%.

Note : This field will not be extracted by the AI and will be generated automatically

Instructions for Setting Attainment Thresholds

- Min (Fully Attained) %: Enter the minimum percentage of marks required for a student to be considered as having fully attained the course outcome (Level 3).
- Example: If it is set to 85%, any student scoring 85% or above in a CO will be assigned Attainment Level 3.
- Min (Partially Attained) %: Enter the minimum percentage of marks required for a student to be considered as having partially attained the course outcome (Level 2).
- Example: If it is set to 75%, any student scoring between 75% and less than 85% will be assigned Attainment Level 2.
- Attainment Level 1 (Not Attained): Automatically assigned to students scoring less than the minimum percentage defined for Level 2.
- Summary of Attainment Levels (Example Thresholds)
- A student scoring ≥ 85% in CO1 → Attainment Level = 3 (Fully Attained)
- A student scoring ≥ 75% and < 85% in CO1 → Attainment Level = 2 (Partially Attained)
- A student scoring < 75% in CO1 → Attainment Level = 1 (Not Attained)

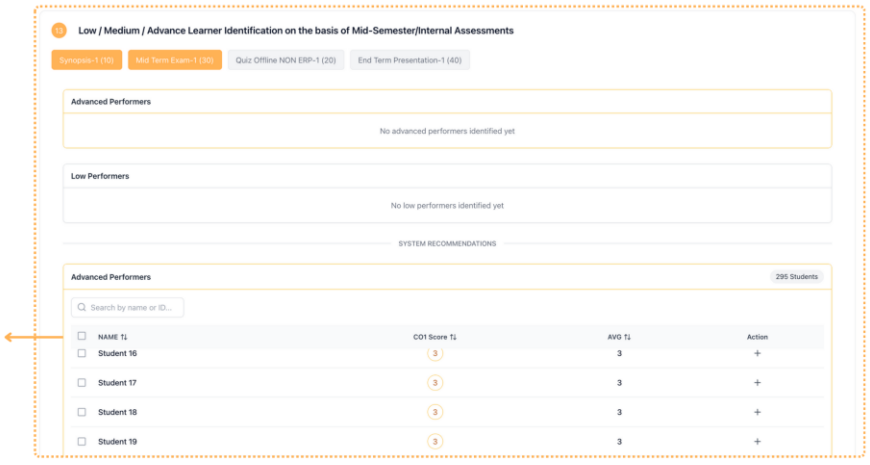


Student-wise CO Achievement

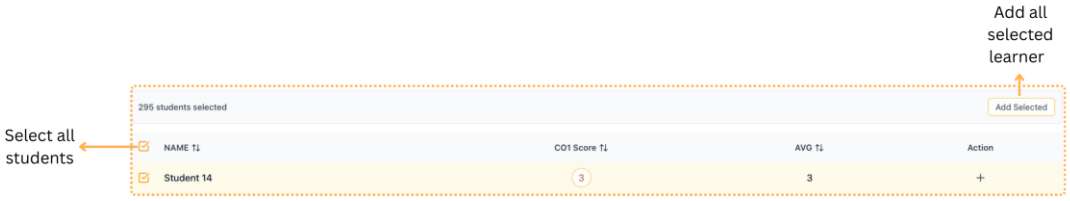
NAME	CO1 Score	CO2 Score	CO3 Score	CO4 Score
Aditya Goel	3	3	1	1
Anisha Chhanpadia	1	1	1	1
Dhruv Singla	2	1	1	1
Dorjee Phinjo Sona	1	2	1	1
EENA CHAUDHARY	1	1	1	1
Average	**1.80**	**1.70**	**1.40**	**1.00**

This table reflects the Target Attainment, based on data from the previous Target Attainment table.
If the previously set Attainment Thresholds (i.e., the minimum percentages for Level 2 and Level 3) are modified, the Target Attainment values will automatically update to reflect the changes.

If the previously set Attainment Thresholds (i.e., the minimum percentages for Level 2 and Level 3) are modified, the Target Attainment values will automatically update to reflect the changes.



After selecting the assessment, Low Performers and Advanced Performers will be listed under "Unmatched." Click the "+" action button to move each student to the appropriate category.

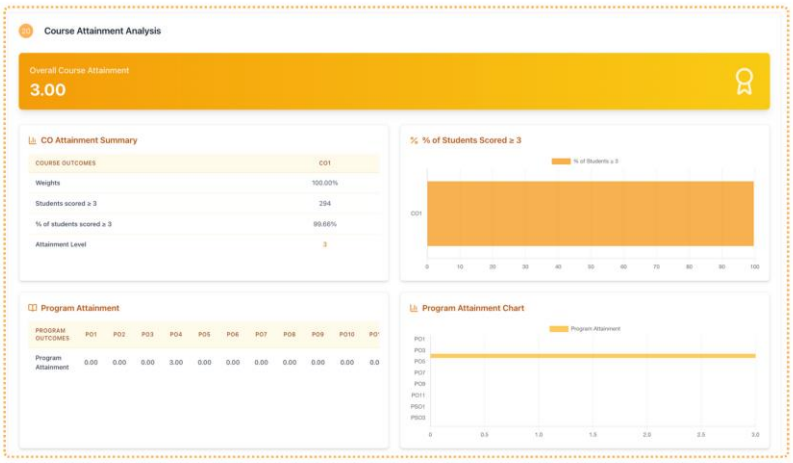


Make sure to select the students from system identified learners to main code

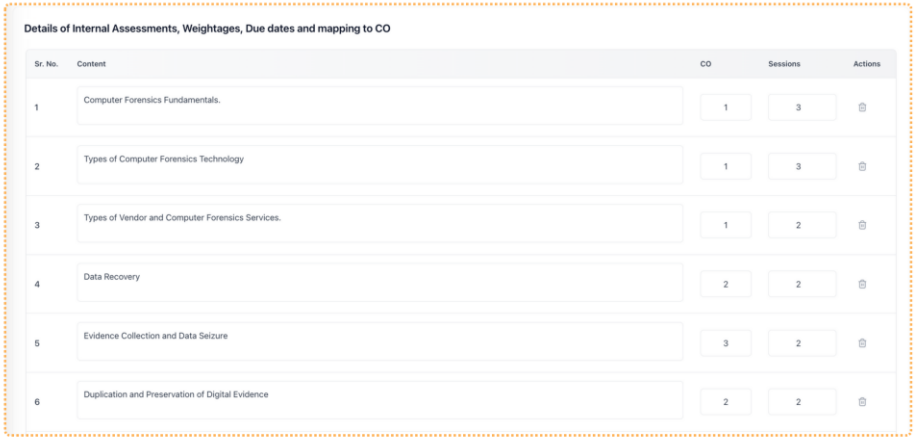
Click the "Delete" action button to remove a student if they were accidentally added.

Note : This field will not be extracted by the AI and will be generated automatically

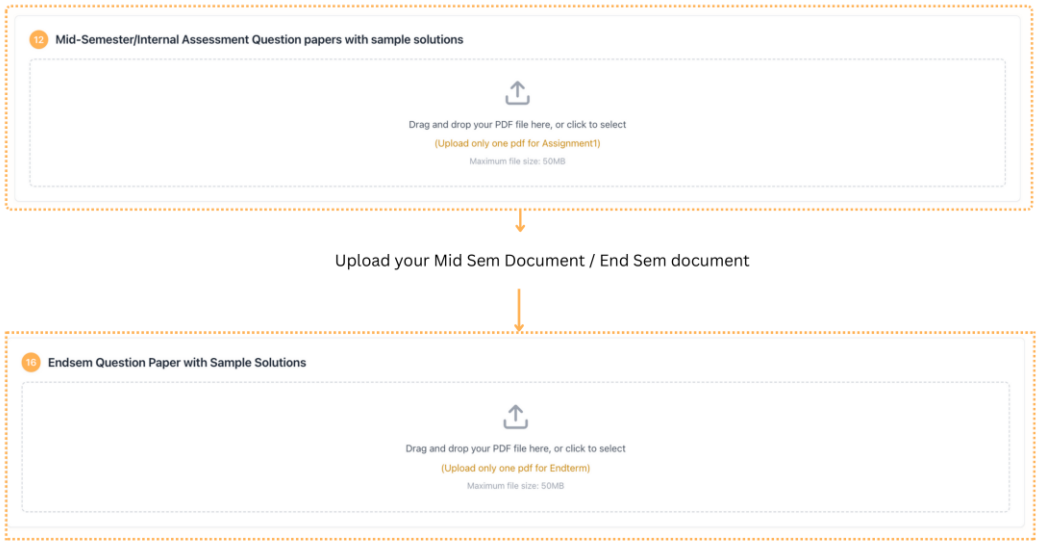
- Min(Fully Attained) %: students threshold for Level 3 attainment (85% in example)
- Min(Partially Attained) %: students threshold for Level 2 attainment (75% in example)
- Example: If %age of students having course attainment greater than 3 is 88% in CO1, target attainment level of CO1 will be 3
- Example: If %age of students having course attainment 78% in CO1, target attainment level will be 2 of CO1
- Example: If %age of students having course attainment 70% in CO1, target attainment level will be 1 of CO1



These graphs and tables are generated automatically. No action is required—they are updated based on the values entered in the previous fields

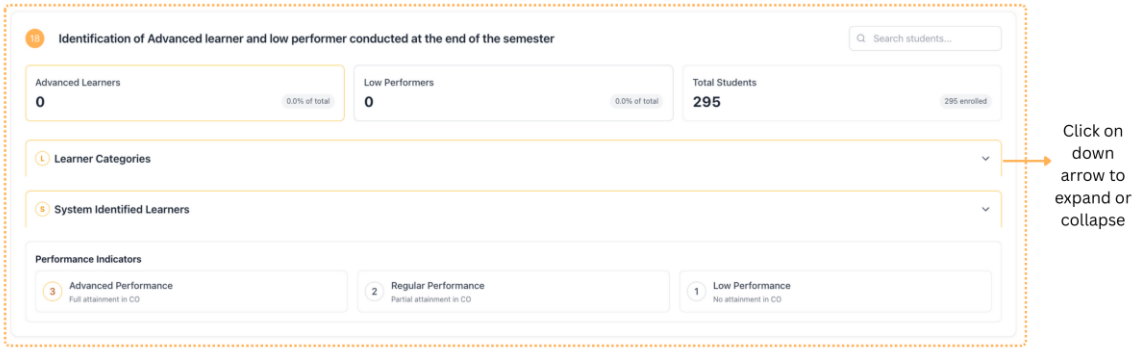


Review and carefully edit your course content and session wise plan

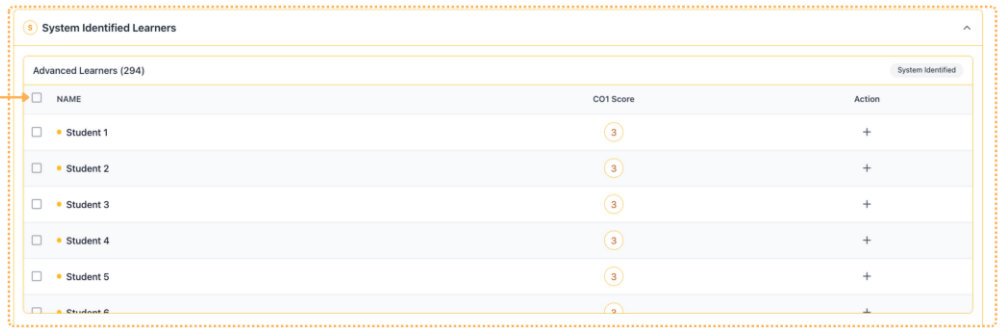

12 Mid-Semester/Internal Assessment Question papers with sample solutions
Drag and drop your PDF file here, or click to select
(Upload only one pdf for Assignment1)
Maximum file size: 50MB
Upload your Mid Sem Document / End Sem document
16 Endsem Question Paper with Sample Solutions
Drag and drop your PDF file here, or click to select
(Upload only one pdf for Endterm)
Maximum file size: 50MB


Blockchain.pdf (0.63 MB)
Upload
Click on upload button to properly upload the pdf
View button to view your pdf uploaded
12 Mid-Semester/Internal Assessment Question papers with sample solutions
1744869708647-250654394-Blockchain.pdf
View
Click on delete icon to delete and upload new pdf
To upload a new pdf, please delete the previous one.
File uploaded successfully!


Click on add row to add a new row and add the reflections
14 Reflections from the Mid-term semester feedback.
Reflections
+ Add Row
15 Actions Taken for low Performers
Action Taken for Slow Performers
+ Add Row
Enter action taken for slow performers...
Click on delete icon to remove the action

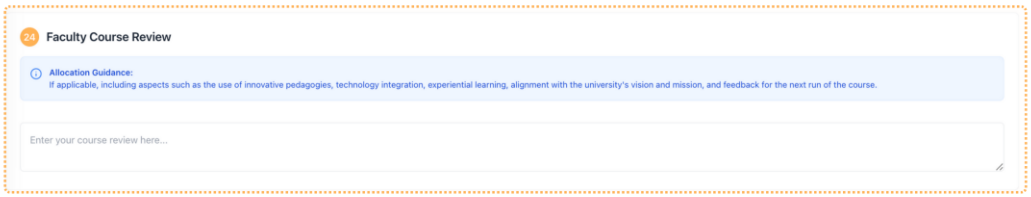

18 Identification of Advanced learner and low performer conducted at the end of the semester
Search students...
Advanced Learners
0
0.0% of total
Low Performers
0
0.0% of total
Total Students
295
295 enrolled
Learner Categories
System Identified Learners
Performance Indicators
3 Advanced Performance
Full attainment in CO
2 Regular Performance
Partial attainment in CO
1 Low Performance
No attainment in CO
Click on down arrow to expand or collapse

Select all the students from the student list using name checkbox



Here you can only enter the numerical value ranging from 0 to 5

Here you can enter your textual data like the feedback you want to give



Instructions for Faculty Course Review:

In the provided text box, please reflect on the delivery and impact of your course by addressing the following points:

- Describe any innovative pedagogies you adopted while delivering this course.
- Highlight the experiential learning components included (e.g., hands-on projects, real-world case studies, industry interactions, etc.).
- Explain how this course is aligned with the university's mission and vision, particularly in fostering interdisciplinary learning, social responsibility, or innovation.
- If this course is to be offered in the upcoming semester, suggest how you would modify or enhance its delivery based on your experience, student feedback, or evolving trends in the subject area.

Error processing sample submissions

13. Low / Medium / Advance Learner Identification on the basis of Mid-Semester/Internal Assessment(s)

Learner Categories Summary for Partial Semester

Learner Category	Number of Students
Advanced Learners	9
Medium Learners	2
Low Performers	0

Student Learning Classification for Partial Semester

Student Name	Category
Akshat Rawat	Advanced Learner
Karan Singh	Advanced Learner
Vivek	Advanced Learner
Samarth Sharma	Advanced Learner
Harsh Yadav	Advanced Learner
Shruti Negi	Advanced Learner
Karmanya Bhalla	Advanced Learner
Diksha Balodi	Advanced Learner
Ajay Teli	Advanced Learner
Arepalli Yagnesh Sri Sai	Medium Learner
Shubham Patel	Medium Learner

15. Interventions made for Low performers and advanced learners, highlighting initiatives taken for student improvements (retest, resubmissions etc.)

•

16. End Semester Question papers with sample solutions

Error processing sample submissions

17. Details of Marks in all components up to the End Semester including the grades

Sr.No	Unique Id.	Student Name	Project Evaluation Out of (60)	End term examination Out of (40)	Grading
1	230768	Akshat Rawat	23.0	28.75	C
2	230972	Arepalli Yagnesh Sri Sai	0.0	0.0	F
3	240714	Karan Singh	29.0	31.5	B
4	230764	Vivek	26.0	31.5	C+
5	230765	Samarth Sharma	36.0	44.75	A
6	230766	Shubham Patel	0.0	2.75	F
7	230915	Harsh Yadav	26.0	31.5	C+
8	230844	Shruti Negi	26.0	40.25	B+
9	230864	Karmanya Bhalla	33.0	40.75	A
10	230872	Diksha Balodi	26.0	38.25	B
11	230937	Ajay Teli	33.0	38.75	B+

18. Identification of advance learners and low performers conducted at the end of the semester

Learner Categories Summary

Learner Category	Number of Students
Advanced Learners	0
Medium Learners	11
Slow Learners	0

Student Learning Classification

Student Name	Category
Akshat Rawat	Medium Learner
Arepalli Yagnesh Sri Sai	Medium Learner
Karan Singh	Medium Learner
Vivek	Medium Learner
Samarth Sharma	Medium Learner
Shubham Patel	Medium Learner
Harsh Yadav	Medium Learner
Shruti Negi	Medium Learner
Karmanya Bhalla	Medium Learner
Diksha Balodi	Medium Learner
Ajay Teli	Medium Learner

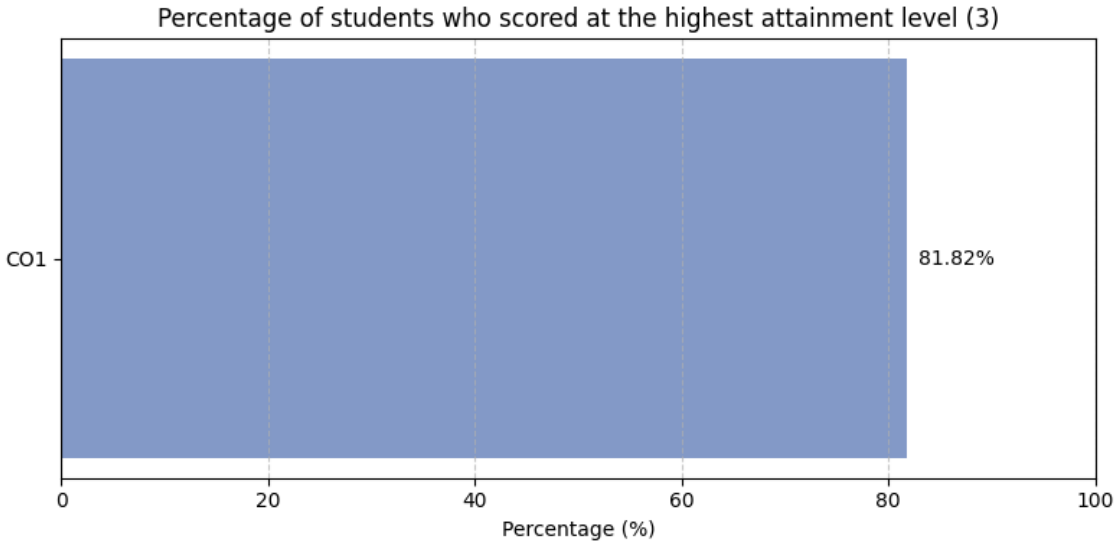
19. Attendance Report

Sr.No	Unique Id.	Student Name	Attendance
1	230768	Akshat Rawat	78.72
2	230972	Arepalli Yagnesh Sri Sai	76.60
3	240714	Karan Singh	92.86
4	230764	Vivek	85.42
5	230765	Samarth Sharma	89.58
6	230766	Shubham Patel	79.17
7	230915	Harsh Yadav	87.50
8	230844	Shruti Negi	87.50
9	230864	Karmanya Bhalla	83.33
10	230872	Diksha Balodi	87.50
11	230937	Ajay Teli	89.58

20. CO attainment analysis with the reflection on feedback on course outcomes

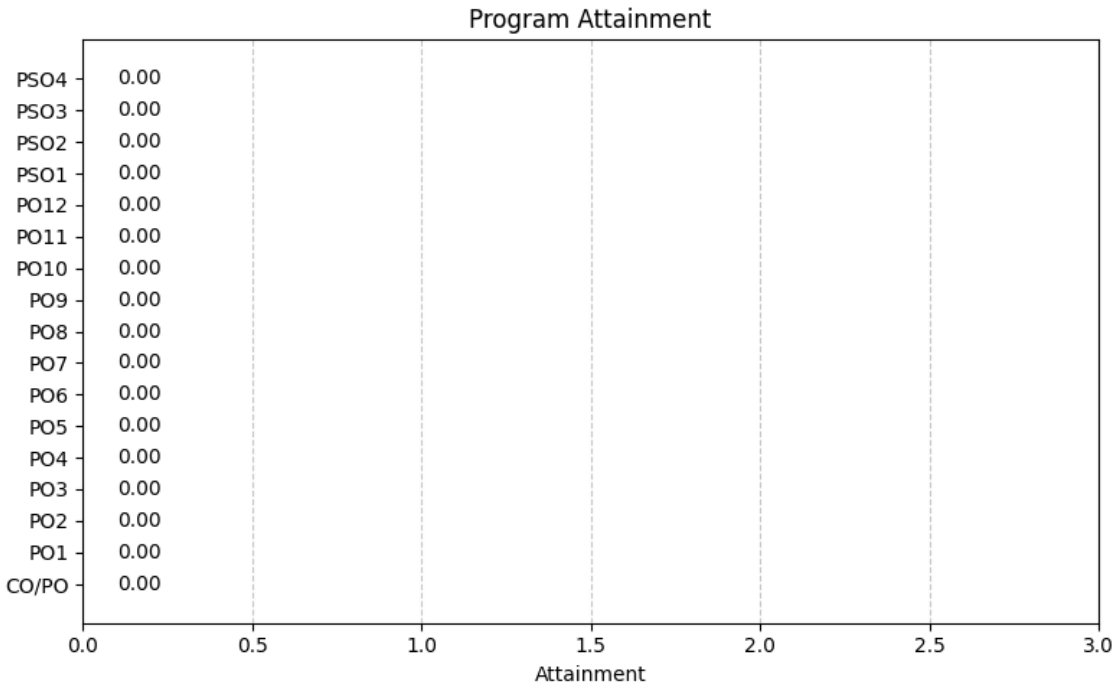
CO Attainment Summary

Course Outcomes	CO1
Weights	100.00%
No. of students who scored at the highest attainment level (3)	9
Percentage of students who scored at the highest attainment level (3)	81.82%
Attainment Level	3
Overall Course Attainment	**3.0000**



Program Attainment

Program Outcomes	CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
Program Attainment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Student-wise CO Achievement

NAME	CO1 Score
Akshat Rawat	3
Arepalli Yagnesh Sri Sai	2
Karan Singh	3
Vivek	3
Samarth Sharma	3
Shubham Patel	2
Harsh Yadav	3
Shruti Negi	3
Karmanya Bhalla	3
Diksha Balodi	3
Ajay Teli	3
Average	**2.82**

21. Feedback (class committee or otherwise) and corrective actions (if any)

Quantitative Feedback:

Average Rating: 0.00/5