



Report on

Two days workshop on “Crafting Quality Questions with Suitable Bloom’s Taxonomy and CO Attainment for the Autonomous Framework”

Date(s): 24 – 25 June 2025

Venue: Room No. 306

Participants: 105 faculty members

Resource Persons:

1. Dr. Rayudu Peyyala — Principal
2. Dr. S. Muni Rathnam — Dean, IQAC
3. Dr. Jagadeesh Babu — Associate Professor, ECE

A two-day workshop titled “**Crafting Quality Questions with Suitable Bloom’s Taxonomy and CO Attainment for Autonomous Framework**” was successfully conducted on **24th and 25th June 2025** at **Room No. 306**, with the enthusiastic participation of **105 faculty members** across departments.

Day 1 (24 June 2025)

Dr. S. Ramalinga Reddy, Director of Aditya College of Engineering, formally inaugurated the workshop and warmly welcomed all faculty members to the two-day session.

Dr. S. Muni Rathnam, Dean – IQAC, initiated the session by presenting an overview of Outcome-Based Education (OBE). He elaborated on the core elements of OBE, the importance of clearly defined Course Outcomes (COs), and the process of CO-PO mapping for effective curriculum design and assessment

Elements of OBE: Vision/Mission → PEOs → POs → COs → Assessment → Continuous Improvement. Framing Course Outcomes (COs): writing measurable verbs, defining performance criteria, and matching depth of knowledge. CO-PO Mapping: Assigning correlation levels and avoiding over-mapping.

Dr. Rayudu Peyyala, Principal, provided an in-depth explanation of Bloom’s Taxonomy and its relevance in designing quality question papers. He emphasized the importance of aligning questions with cognitive levels, ensuring clarity and relevance in student assessments.

Demonstrated converting vague prompts into level-specific items (e.g., “explain” → Understand; “design” → Create).

Dr. Jagadeesh Babu, Associate Professor, ECE, delivered a practical session on designing quality question papers using AI tools. He demonstrated how AI can aid in generating questions aligned with Bloom’s levels and ensure coverage of all COs efficiently.

Live demo of ChatGPT and Bloom’s-aligned prompt templates.

Showed how to feed CO statements and rubric constraints to produce draft question banks. Participants, grouped by discipline, rewrote one mid-semester paper, mapped each item to Bloom’s level and CO, then peer-reviewed for alignment and overlap.



Day 2 (25 June 2025)

Dr. S. Muni Rathnam continued the workshop with a step-by-step explanation of CO attainment of ACEM R24 courses. He focused on setting target levels for COs, CO-PO mapping techniques, attainment procedures for theory, merged theory courses (e.g., BEEE/BCME), lab, and audit courses. Hands-on guidance on calculating CO attainment using Excel sheets, ensuring a systematic and data-driven approach to curriculum assessment. Step-by-Step Excel Template: importing raw marks, auto-calculating CO-level averages, converting to attainment scores.

Special Cases:

Merged Theory Courses (BEEE/BCME) — splitting question papers into CO-specific clusters.
Lab Courses — rubric-based observation sheets linked to COs.
Audit/Value-Added Courses — pass/fail logic and survey-based indirect attainment.

Hands-On Practice

Each participant populated the Excel sheet with demo data, generated attainment charts, and interpreted whether course targets were met. Troubleshooting sessions followed for formula errors and data inconsistencies.

Panel Q & A

Common queries addressed: scaling single-CO electives, reconciling direct vs. indirect attainment, and archiving evidence for NBA audits.

Workshop Outcomes:

Enhanced Pedagogic Competence

Faculty can now draft CO-balanced, Bloom's-aligned question papers.

Proficiency in CO-PO Mapping & Attainment

Participants can independently perform correlation, set realistic targets, and compute attainment for theory, lab, and merged courses using the standardized Excel tool.

Integration of AI Tools

100 % of attendees generated sample Bloom's-tagged questions via ChatGPT, laying groundwork for AI-assisted assessment design.

Quality-Assurance Readiness

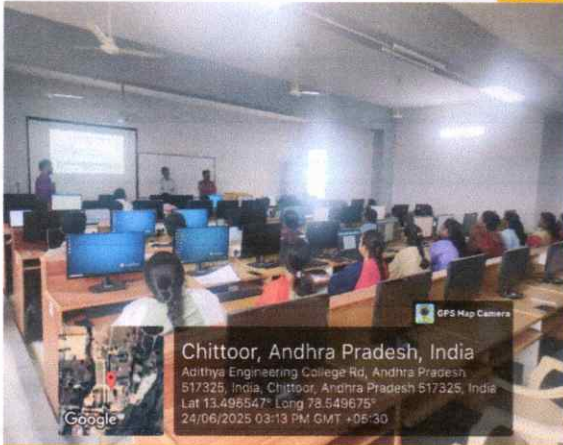
Departments now possess updated templates and check-lists that streamline evidence collection for academic audits and accreditation.

Collaborative Culture

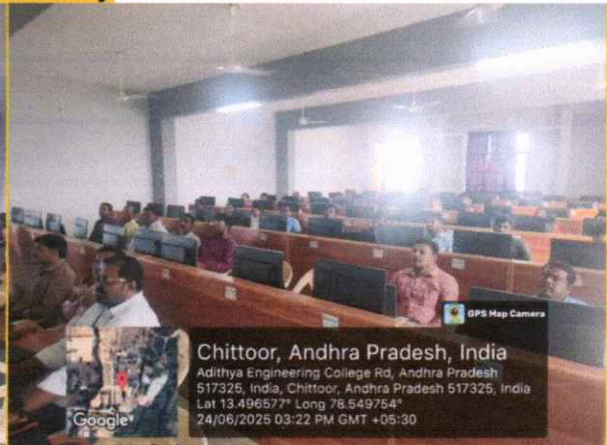
Cross-disciplinary peer review during the workshop fostered a community of practice committed to continuous improvement in assessment quality.



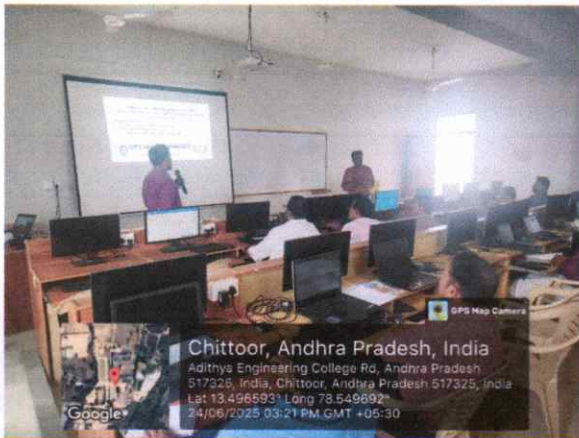
Photo Gallery



Dr. S. Ramalinga Reddy, Director, inaugurated the two-day workshop and welcomed all faculty members.



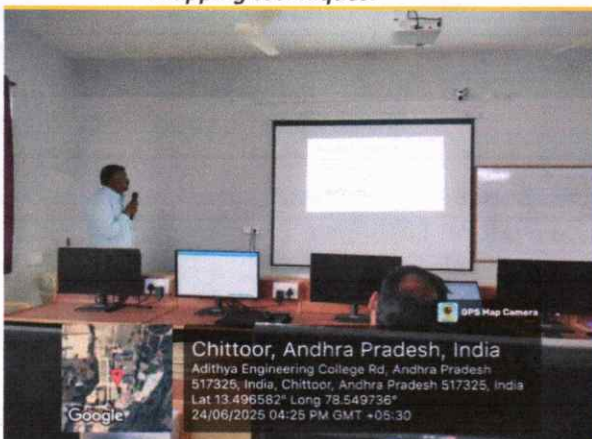
Faculty members attentively participating in the hands-on session during the workshop on assessment design and Bloom's taxonomy.



Dr. S. Muni Rathnam, Dean IQAC, delivering an insightful session on OBE, highlighting CO, PO, and mapping techniques.




Dr. Rayudu Peyyala, Principal, explaining Bloom's Taxonomy levels and demonstrating the process of crafting quality question papers.



Dr. Jagadeesh Babu conducting a session on generating quality questions using AI tools and digital support.



Dr. S. Muni Rathnam explaining CO-PO attainment and target setting for theory, lab, and audit courses during the second day of the workshop.


Principal
Principal
Aditya College of Engineering
Madanapalle-517 325