



Innovation in Teaching Learning Process

Model activity & role play of Airport components and layout

Name of the Innovation	: Model activity & role play of Airport components and layout
Course Code and Name	: 2AEAT301 - Airport Operation and Air Traffic Control
Class and Semester	: T.Y Minor
Academic Year and Term	: 2024-2025 & Odd
Faculty Name and Designation	: Mr. L. Oblisamy, Assistant Professor

Introduction:

Airports are complex systems made up of various interconnected components such as runways, taxiways, terminals, control towers, cargo areas, and support facilities. Understanding the layout and functions of these components is essential for students pursuing aviation and airport management. This model activity aims to provide a hands-on learning experience by simulating the physical and functional layout of an airport, making the learning process more engaging and practical.

Motivation/Purpose of Innovative Technique:

The purpose of this innovative model-based activity is to bridge the gap between theoretical knowledge and real-world application. By creating and analyzing a physical or digital model of airport components and layout:

- Students can visually and spatially understand how each component functions and interacts.
- It encourages creativity, teamwork, and problem-solving skills through interactive design.
- The technique helps students grasp operational challenges, safety considerations, and efficiency strategies in airport planning.

Procedure Followed:

One Activity Based Assessment (ABA) Techniques were provided to students as a part of their In-Semester Evaluation(ISE) for a weightage of 20% of the overall assessment. The following are the details of the assessment.

- Research & Planning
- Design Layout
- Build the Model
- Function Mapping
- Scenario-Based Activity
- Presentation & Review





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Activity Based Assessment No 2

Class: T.Y. B. Tech, Minor

Course Code :2AEAT301

Semester - V

Course Title : Airport Operation and Air Traffic Control

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Graded Assignment : 30 Marks (50 % Weightage in ABA)

Deadline for Submission: 11th September 2024, (11:59 PM)

Objective:

To enable students to visually understand, design, and demonstrate the functional layout of an airport by constructing a physical or digital model, thereby enhancing their practical knowledge of airport planning, component interaction, and operational flow.

Rationale:

Understanding airport layout and its components is critical for students in aviation and airport management fields. Traditional classroom methods may not fully convey the spatial relationships and operational dynamics within an airport. This model activity serves as an innovative, hands-on learning technique that:

- Bridges theory and practice by encouraging experiential learning,
- Enhances spatial awareness and design thinking,
- Promotes teamwork, creativity, and communication skills,

Deliverable:

• A Airport Model with labelling

Evaluation Criteria:

Model of Airport

- Detailing and Clarity
- Creativity and Design
- Functionality and Flow
- Presentation

Role Play

- Understanding of Roles
- Engagement and Participation
- Collaboration and Teamwork
- Communication Skills





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Outcome:

Through this activity, Students learned how an airport is planned and how each part like the runway, terminal, and control tower plays an important role. By building the model, they understood how aircraft and passengers move through the airport. It helped them connect what to study in class to how real airports work. Students also improved our teamwork, creativity, and problem-solving skills while completing the project.



References:

Airport Site layout - Sample



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