



## HINDUSTHAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,

Accredited with "A" Grade by NAAC)

Valley Campus, Pollachi Main Road, Coimbatore 641 032



### Department of Computer Science and Engineering

#### Competency-Based Learning with Online Assessments

##### Teaching Aid: Google Forms (Quizzes and Objective Tests)

Academic Year: 2024–2025

Course Name: Internet Of Things

Course Code: 20CS533

Semester: VII

##### Aid Used: Google Forms (Quizzes and Objective Tests)

##### Overview:

Google Forms was used to conduct formative quizzes for real-time understanding checks. These assessments tested theoretical understanding and supported competency reinforcement.

##### CO-PO-PSO Mapping:

CO	Mapped PO	Mapped PSO	Attainment Level	Justification
CO1, CO2	PO1, PO2, PO5	PSO1	3	Reinforced theoretical understanding via regular MCQ quizzes aligned with course fundamentals.

##### Interaction:

##### Form Distribution via Google Classroom:

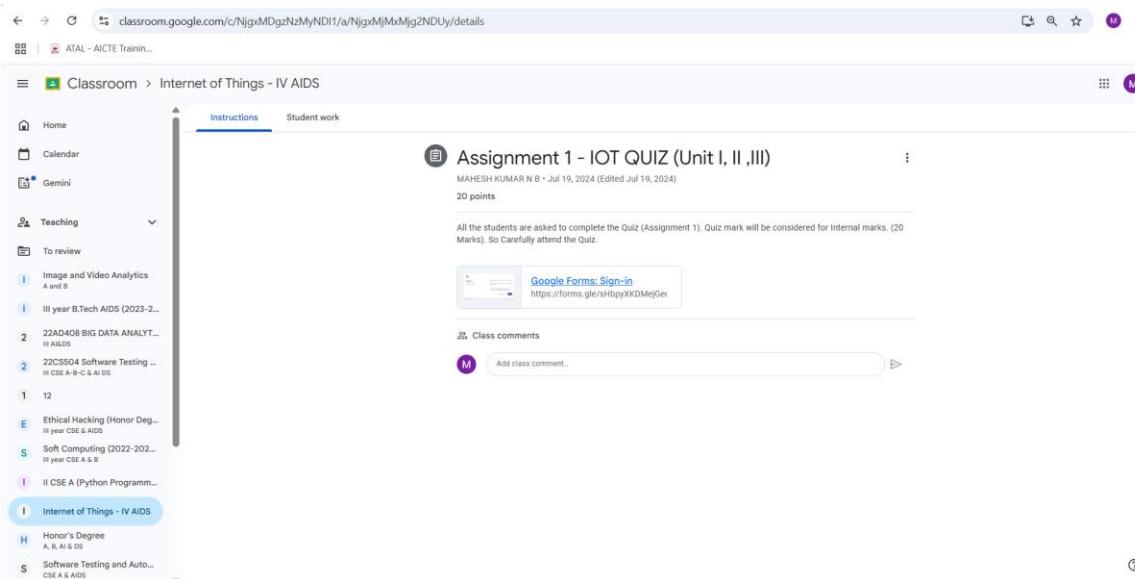
- ✓ Form links shared via Google Classroom for structured access.
- ✓ Quizzes scheduled with time limits and clear topic instructions.
- ✓ Immediate feedback and explanations sent via automated emails.
- ✓ Performance data analyzed using Google Sheets.
- ✓ Remedial sessions conducted for low scorers.
- ✓ post-quiz class discussions to clarify common errors.

##### Outcomes:

### Department of Computer Science and Engineering

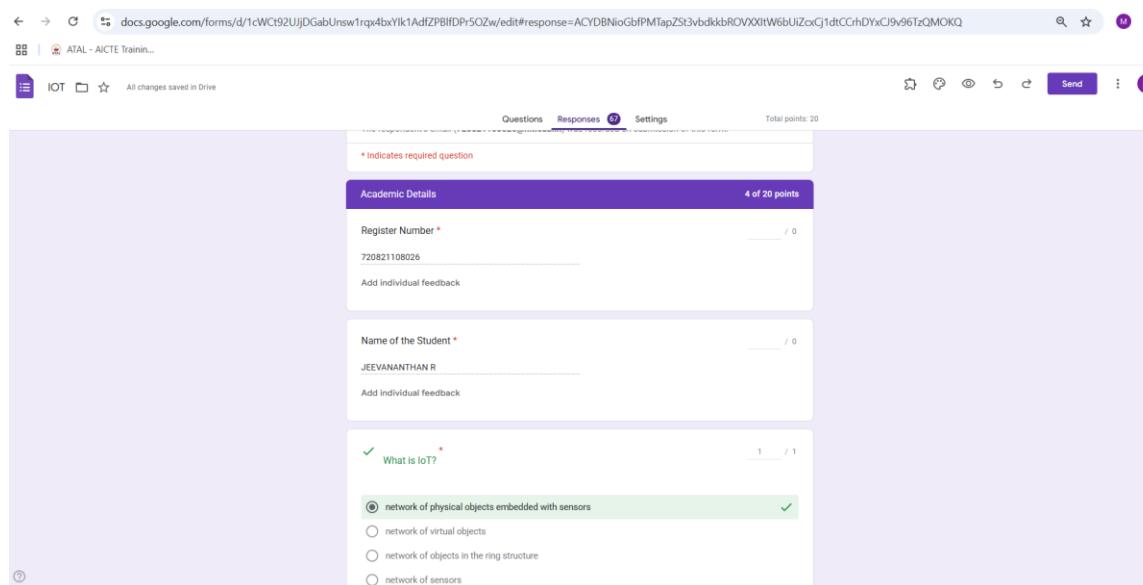
- ✓ 85% of students scored above 70%, reflecting strong conceptual understanding.
- ✓ Low-performing students identified and supported with remedial content.
- ✓ Faculty adjusted teaching strategies based on quiz data insights.
- ✓ Students demonstrated increased engagement and accountability.

#### Proof of Evidence:



The screenshot shows a Google Classroom interface. On the left, there's a sidebar with various course links like Home, Calendar, Gemini, Teaching, To review, etc. The main area is titled 'Classroom > Internet of Things - IV AIDS'. Under 'Instructions', it says 'Assignment 1 - IOT QUIZ (Unit I, II ,III)'. It was created by MAHESH KUMAR N B on Jul 19, 2024, and has 20 points. Below the assignment, there's a note: 'All the students are asked to complete the Quiz (Assignment 1). Quiz mark will be considered for Internal marks. (20 Marks). So Carefully attend the Quiz.' There's also a 'Google Forms: Sign-in' link. In the 'Student work' section, there's a comment input field with 'Add class comment...' and a 'Send' button.

#### Form links shared via Google Classroom for structured access



The screenshot shows a Google Form titled 'Academic Details'. At the top, it says 'Questions Responses 1 Settings Total points: 20'. There's a note: '\* Indicates required question'. The first question is 'Register Number \*' with the value '720821108026'. The second question is 'Name of the Student \*' with the value 'JEEVANANTHAN R'. The third question is 'What is IoT? \*' with a list of options: 'network of physical objects embedded with sensors' (selected), 'network of virtual objects', 'network of objects in the ring structure', and 'network of sensors'. The 'Responses' tab shows 1 / 1.