# Innovations by the Faculty in Teaching and Learning

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Pedagogical Methods</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 1.      | Method: Think pair Share  
Faculty: Nisha S Raj  
Assistant Professor  
Sem / Class: 3 / CSE2  
Course: CS205 Data Structures | The activity is to encourage all students to interact with the course content. In this activity, the instructor states an open-ended question. Ask students to spend a minute or two thinking about and writing a response. Then ask students to pair with a partner to discuss their responses. Reconvene the class after a few minutes, and call on individual students to share the pair’s responses. |
| 1.      | **Think Pair Share**  
- Think: How is a directed graph different from an undirected graph? [1 min]  
- Pair: With your neighbor, discuss your responses [2 mins]  
- Share: Share your differences to the class [4 mins] | |
| 2.      | Method: Peer Instruction  
Faculty: Nisha S Raj  
Assistant Professor  
Sem / Class: 3 / CSE2  
Course: CS205 Data Structures | With **Peer Instruction**, teacher pauses during class and ask students a conceptual question. Give students a few minutes to think about the question, and then have them provide answers. Then, have students spend a few minutes talking about their answers, usually in pairs, and try to convince each other that their answer is correct. Then have students answer again, until they converge. |
| 2.      | **Peer Instruction**  
- Given the following input (4322, 1334, 1471, 9679, 1989, 6171, 6173, 4199) and the hash function x mod 10, which of the following statements are true?  
  i. 9679, 1989, 4199 hash to the same value  
  ii. 1471, 6171 has the same value  
  iii. All elements hash to the same value  
  iv. Each element hashes to a different value  
  A. i only  
  B. ii only  
  C. i and ii only  
  D. all or iv  
  - Vote: [2 min]  
  - Discuss with your neighbor [2 mins]  
  - Vote again [1 min]  
  - Conclude [2 mins] | |
<table>
<thead>
<tr>
<th>Method</th>
<th>FLIPPED CLASSROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Deepasree Varma P</td>
</tr>
<tr>
<td>Sem/Class</td>
<td>2 / CSE2</td>
</tr>
<tr>
<td>Course/Course Code</td>
<td>Introduction to Computer Programming / CS100</td>
</tr>
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Study material is made available in online mode through website to the students prior to teaching. Additional tests are conducted and solutions are made available online for self-verification.

<table>
<thead>
<tr>
<th>Method</th>
<th>GOOGLE CLASS ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Litty Koshy</td>
</tr>
<tr>
<td>Sem/Class</td>
<td>7 / CSE1</td>
</tr>
<tr>
<td>Course/Course Code</td>
<td>Machine Learning/CS 467</td>
</tr>
</tbody>
</table>

Creating a google classroom using google app. Students are made to join as members of the google class room. Notes materials, Assignments, Quiz questions are posted in the app. Students can participate in the quiz by registering through app sign in and evaluation will be done.