

Jigsaw based Assignment Strategy

Course Name and Code : Fluid Mechanics ; ME 2073

Class and Div. : SY B. Tech (B Div)

Department : Mechanical Engineering

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Purpose/Motivation of Technique

- Collaborative learning
- Encourages listening, engagement of students by giving each member of the group essential part to play
- More discussion on core concepts
- Longer retention of concepts
- Rational Thinking
- Create Interest among students

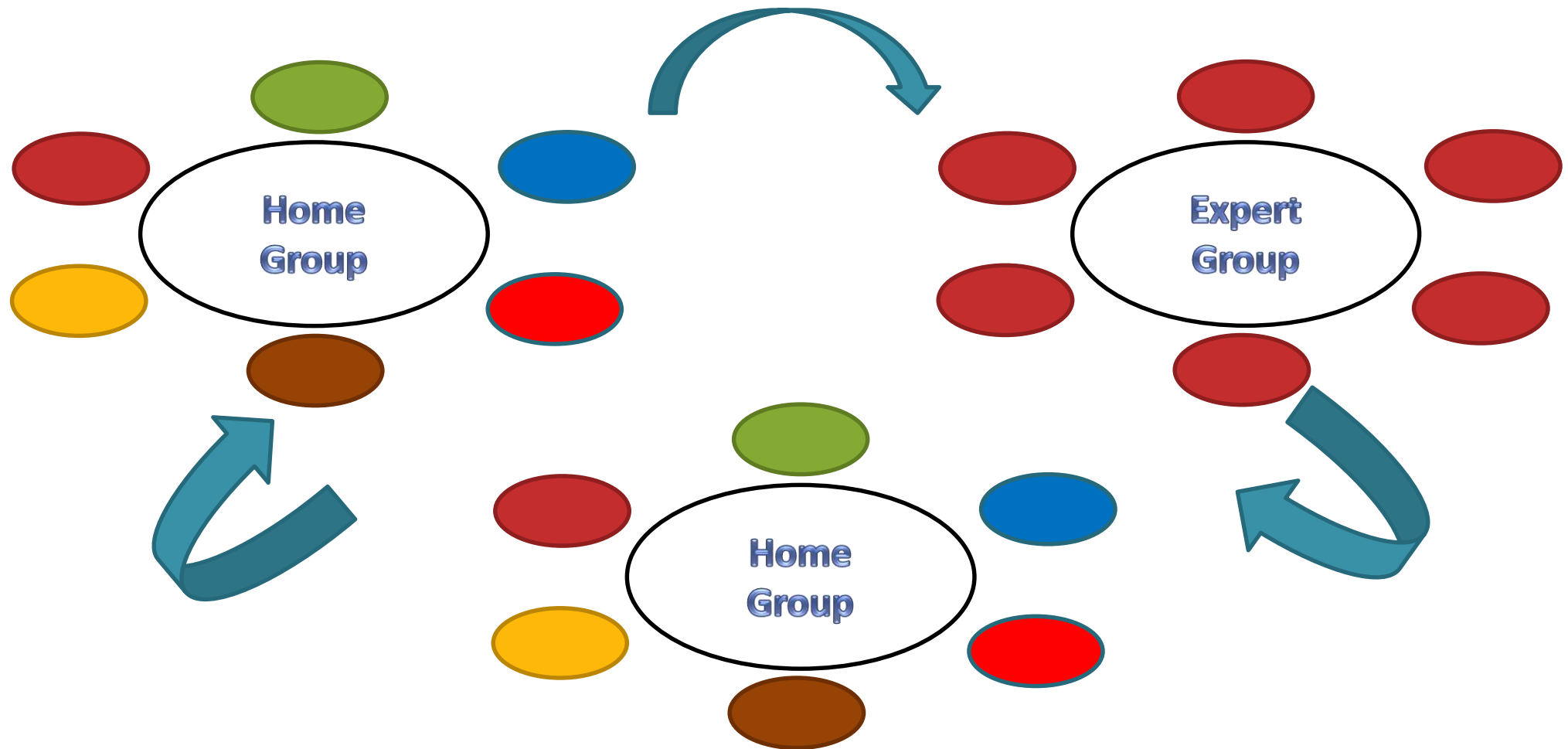
Suitability of Technique to Course

- Fluid mechanics is a complex course with many core concepts which are foundation for many other courses.
- There are many concepts in the course which has got several sub-parts, and each has its relevance with practical applications.
- Difficult to cover all types of numerical in allotted time effectively.
- Self and peer teaching to understand the concept at deeper level.

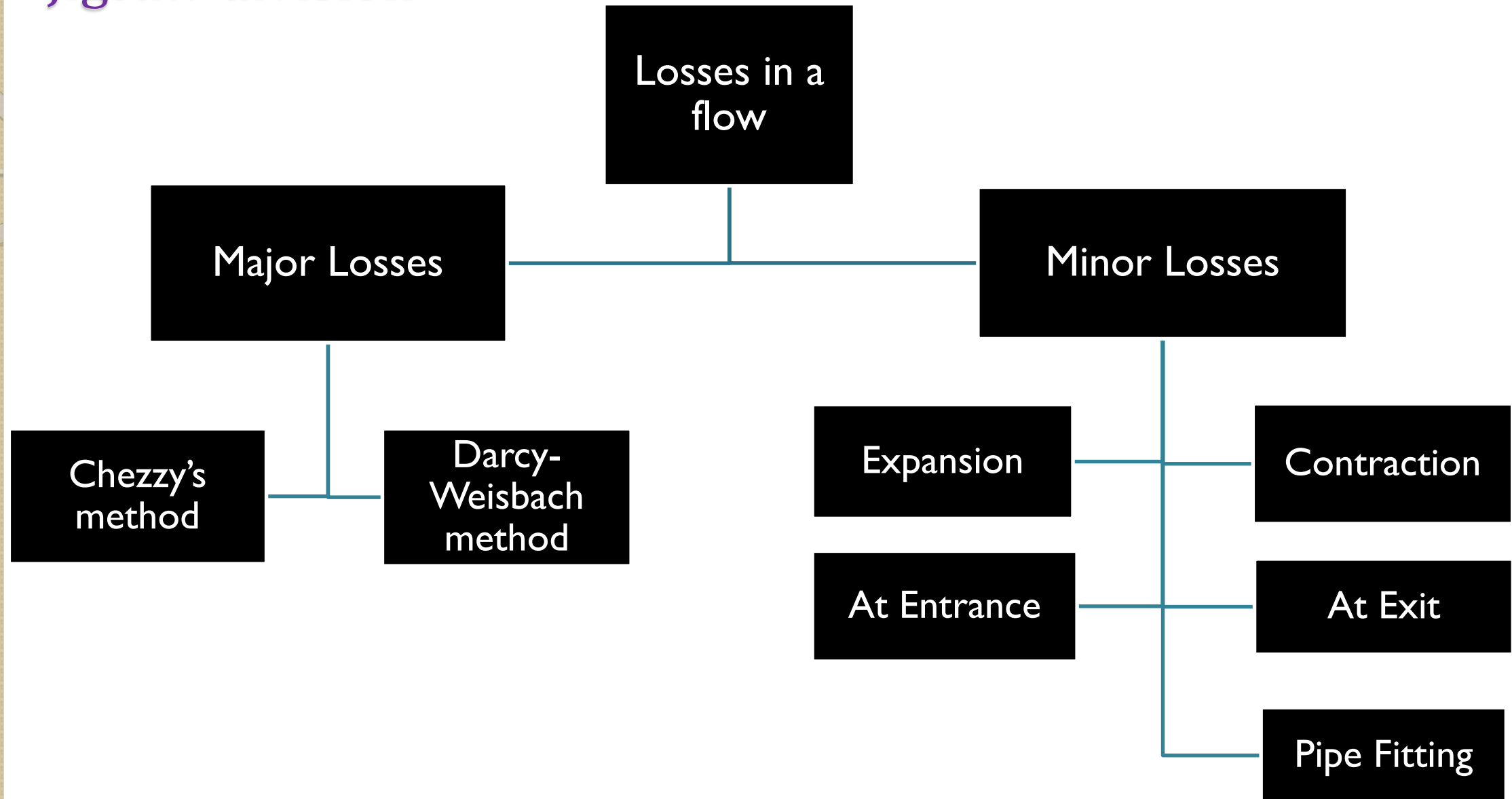
Procedure of Technique

- Students are divided into different groups of suitable group size (Home Group).
- The content is divided into different parts equal to size of the group member.
- Each group member is assigned with some part of the topic, in this way the whole content will be divided into the group members.
- The students are encouraged to study and write report of their content.
- After this, each student from different groups having same content will come together and discuss the difficulties, share their knowledge (Expert Group).
- After discussion with expert group, the students are sent back to their home groups.

Each student teaches his/her content to other group members and total content will be studied in this way.



Jigsaw division





Evaluation

Evaluation Sheet

Marking Scheme: 10 Marks (5 for Presentation; 5 for Individual Assignment)

Exam No	Content	Peer Evaluation (5)	Instructor's Evaluation (5)	Average Score (5)	Assignment Score (5)
2106001	Major Losses- Darcy Weisbach method				
2106002					
2106003					
2106005					
2106008					
2106009	Major Losses- Chezzy's method				
2106010					
2106011					
2106013					
2106014	Minor Losses- Expansion				
2106018					
2106019					
2106021					
2106022					
2106023	Minor Losses- Contraction				
2106025					
2106026					

Outcomes of Technique

- Improved engagement of students in the activity.
- More discussion on core concepts.
- Student feel responsible for better performance of the group.

THANK YOU!!!!