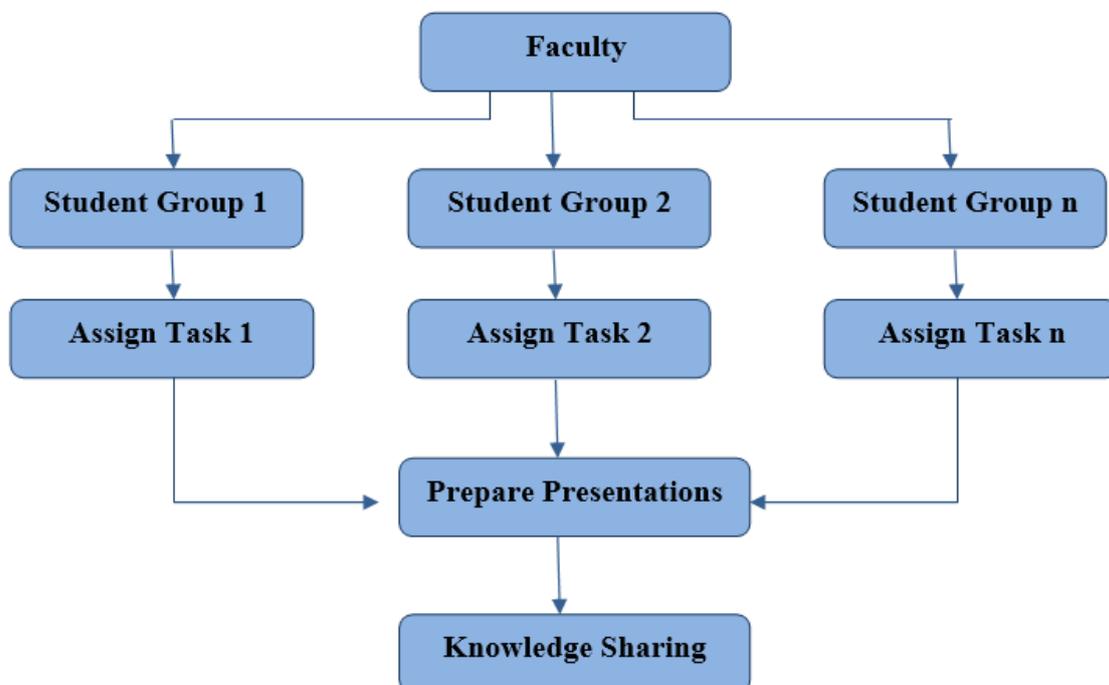


Collaborative learning is a group-based learning approach in which learners are mutually engaged in a coordinated fashion to achieve a learning goal or complete a learning task. Collaborative learning can increase learner engagement and promotes higher-order thinking, such as critical thinking. Collaborative learning is an umbrella term that covers a range of approaches in which learners achieve an academic goal together. It is a shift from traditional teacher-centered approaches to contemporary learning approaches, including student-centered, social learning, active learning, and constructivism.

### **Theory subjects and Lab:**

- Groups comprising a maximum of five to six students are formed in each class to conduct the association activity.
- One from the group will be designated as the group leader.
- Each group may be assigned tasks by the faculty and a report on the activity will be provided by the respective group leader.
- An assessment on the report will be done by the faculty to analyze the expected outcome from the activity is achieved.
- The tasks assigned should be a minimum of three in each semester.
- The focus of the tasks should be on learning new technologies, enhance the knowledge on a particular topic, studying new tools to be in pace with the industry, doing some mini projects, etc.
- Faculty may encourage each group to disseminate the knowledge they have gathered to others.

### **Process for implementing Collaborative Learning**



**Department:** Computer Science & Engineering

**Faculty:** Mr. N.Ashok, Associate Professor & Mr.A.Satish Kumar, Assistant Professor

**Subject:** Mobile Application Development

**Class:** CSE IV Year Section A & B

**Topic:** Mobile Collaborative Learning (MCL)

In the last few years, mobile devices have grown in popularity and their technologies have become pervasive, ubiquitous and networked with enhanced capabilities for rich social interactions. Also, many different types of technologies have been adding to the popularity of the mobile devices changing the educational landscape and programs of colleges and universities. Mobile learning is a new research area. The several attractive mobile learning tools have been designing and developing by integrating with the emerging technologies.

With the importance of collaborative learning as a pedagogical method in personal learning and collaborative experience, the learning application has been implanted from elementary schools to universities. Mobile technology has been adapted as a main communication since it is well suited in engaging collaborative learning environments. The concept of mobile collaborative learning (MCL) is completely different from classroom-based learning. This type of pedagogical learning method provides many possibilities, such as providing opportunities to groups of people working in same or different organizations to accomplish a specific goal using mobile devices.

Therefore, the demand of collaborative learning over the mobile device has been increasing as a major education element. Major research challenges are raised in developing MCL for educational object such as sharing knowledge, requesting for modified contents, fully accessing to enterprise data warehouse (EDW), delivering.

