**DYNAMIC RESOURCE ASSIGNMENT AND MIGRATION FOR EFFECTIVE CLOUD UTILIZATION**

NAME OF THE STUDENTS:

1.AMRUTHA.R(211417104014)

2. JAYASHRI.M.G (211417104091)

3. KAVITHA.E (211417104114)

PROJECT GUIDE: KAVITHA SUBRAMANI

In the **Existing** system, the infrastructure resources in distributed green cloud data centers (DGCDCs) are shared by multiple heterogeneous applications to provide flexible services to Global users in a high-performance and low-cost way. In the **Proposed** system, task Scheduling and resource optimization (STSRO) method to minimize the total cost of their Provider by cost-effectively scheduling all arriving tasks of heterogeneous applications to meet tasks’ delay-bound constraints. In the **Modification** Process, they are three types of systems. 1. Hot Machines that can handle the current job. 2. Warm Machines are kept in the idle state until job is assigned. 3. Cold machines are also kept idle until warm machines are busy with their jobs. Each machine deploys with three Virtual servers. 1st Job is assigned to the Hot machine’s 1st Virtual machine and in the same way other jobs are assigned to the remaining VMs. If the VMs in the hot machine are filled then the jobs are assigned in the Warm machines VMs. In the same way jobs are assigned to the cold machines. Automatic migration of job is implemented, so as to transfer the load to the Hot VM from Warm VM once it has completed the job and cold VM to warm VM. We also implemented cache mechanism.