**Indian Institute of Information Technology (IIIT) Chittoor, Sricity Questionnaire for BTP-Progress Evaluation**

**Wednesdays, 3:30 – 5pm**

**Spring 2016**

**Team**

Chinmayi Nibhanupudi

Nagarjuna Chidara

**Project Title :** Routing protocol and authentication mechanism fro vehicular wireless networks

**Faculty :** Dr. Hrishikesh Venkataraman

**1. Describe what you have done in the last 3 weeks.**

Literature study regarding resilient routing protocols. Challenges faced in implementing the routing protocols with resiliency, physical and technical challenges involved in it.

**2. How many times did you meet / talk with your faculty / guide?**

Didn't count exactly but many times. Atleast once a day, if he was in campus. For a week he was outstation on some work, but we discussed through mails.

**3. How many papers / articles / technical materials have you read in the last 3 weeks?**

We read 4 papers relating to resiliency in wireless communication, resiliency in cellular and vehicular ad-hoc networks. Didn't have an exact count on online articles.

**4. Provide a brief summary of your learning?**

Challenges under vehicular communication are as follows

If we are following a multi-hop communication and if there is a lot of distance between two vehicles at a particular point where communication has to be done, then there could arise a problem of resiliency, because the cars are very far from each other to communicate.

In order to solve it, we may opt for some of the road side units to communicate to the destination car or send that message to one of the cellular operator and ask him to send that message to the driver of the car. Here RSU might cost a lot that that we would spend for the cellular operator. We better go to the cellular operator and have necessary understanding with him.

With wireless comm.

If there is only one wifi network available at a particular place and if it's controller goes off due to some reason, the wifi of the user's mobile immediately starts searching for another wifi connection available with in its vicinity. If it's not available, it stops receiving the info that it has to.

This kind of problem can be overcome by establishing a bridge network for the system to keep working, nut it's cost effective.

And much more.....

**5. What development / programming / practical activity did you do in the last 3 weeks.**

Not much. Till now we were focusing on the literature associated with it.

**6. How close/far are you from the milestone set by your Guide?**

Till now there hasn't been any discussion regarding the deadline or mile-stone set by our prof. We will pick the momentum up and go ahead.

**7. What specific challenges are you facing/you faced in the last 3 weeks?**

Not really related to the project, but accessing some research papers of IEEE needed some licences and our institute doesn't have it. We faced problem in contacting our friends from different institutes and gor some very useful material. It would be a great help if we can also access them in our institute.

**8. Propose your plan for the next 3 weeks; as agreed with your supervisor. It would be verified in the next round (Q1).**

Setting our project goal. Planning the deadlines/milestones. Will look for the applications involved in deep. Try to get broad solutions for the existing challenges.