

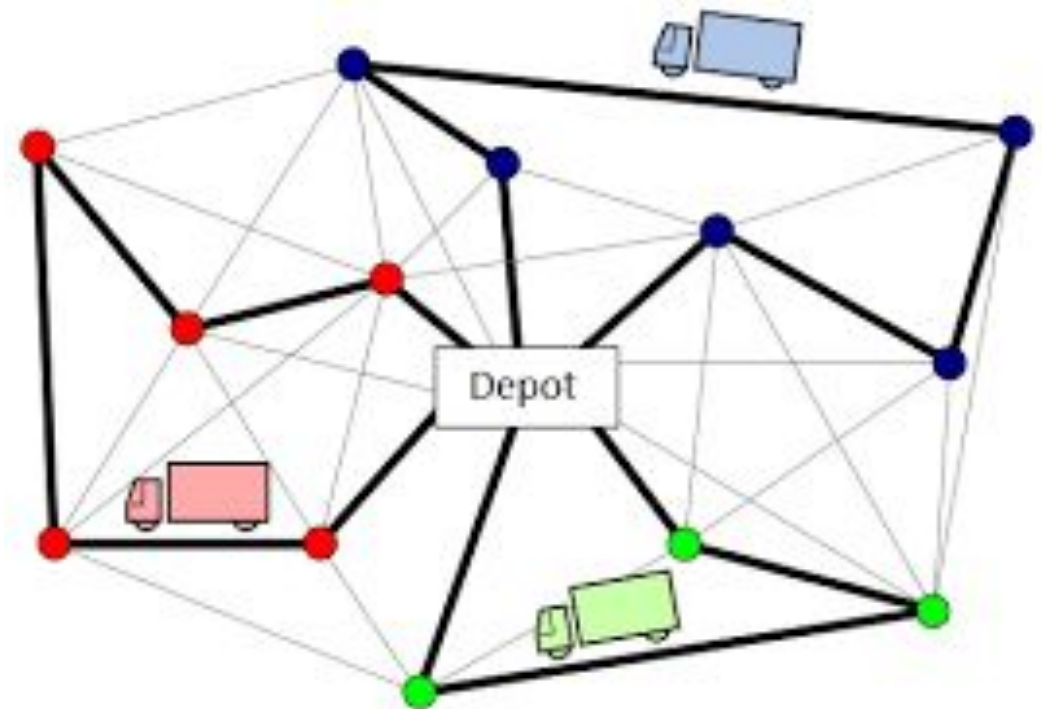
INTER IIT TECH MEET

Agenda

1. To develop a route optimization algorithm that caters to the real time changing demand of customers to determine route and schedule of buses depending on the constraints provided.
2. The algorithm should be able to give optimized routes for 'n' number of constraints , for example the desired output should be achieved with either one of the constraints as well as considering all of them together as per the requirements.
3. Justification and visualization of the method.

Constraints-

- Time window for pick up and drop off.
- Minimize operational cost.
- Number of buses
- Vehicle occupancy should be at least 85%.



Sample data

Start time= 6:15 am and End time = 7:35 am (morning)

Start time time=4:30 pm and End time = 6:00 pm

Bus capacity= 36seater

Kms/trip= 59.2

Pick Up Route	Drop Route
Yelachenahalli metro Station	Bosch Bidadi
Sarakki signal	Via Uttarahalli main Road
Iliaz Nagar	Channasandra RNSIT College
Devegowda petrol Bunk	RR Nagar - BMTC Bus depot circle
Kamakya theater stop	RR Nagar Temple
katriguppe Bus stop	Poorna Prajna Layout
Ittamadu VB Bakery	Ittamadu VB Bakery
Poorna Prajna Layout	katriguppe Bus stop
RR Nagar Temple	Kamakya theater stop
RR Nagar - BMTC Bus depot circle	Devegowda petrol Bunk
Channasandra RNSIT College	Iliaz Nagar
Via Uttarahalli main Road	Sarakki signal
Bosch Bidadi	Yelachenahalli metro Station

S.No	Persons	Boarding point
1	B1	Devegowda Petrol Bunk
2	B2	Hoskeralli
3	B3	Channasandra RNSIT
4	B4	Kathriguppe
5	B5	Kamakya Theatre
6	B6	PESIT Collage
7	B7	Katherguppe Circle
8	B8	HosaKerehalli
9	B9	Bata Show Room
10	B10	Ittamadu
11	B11	Rajarajeshwari temple
12	B12	Jantha Bazar
13	B13	Kuthriguppe
14	B14	Hosakarehalli
15	B15	Rajarajeshwarinagar Double Road
16	B16	Kathriguppe
17	B17	HosaKerehalli
18	B18	Kamakya Theatre
19	B19	Kanthi Sweets RR Nagar
20	B20	HosaKerehalli
21	B21	Chowdeshwari Talkies
22	B22	Jayanagar
23	B23	Kattrigupe
24	B24	Kadirenahalli
25	B25	Kathriguppe
26	B26	Mantri Apartment
27	B27	Channasandra RNSIT
28	B28	Kodipalya (Uttarahalli main Road)
29	B29	Uttarahalli road Kengeri