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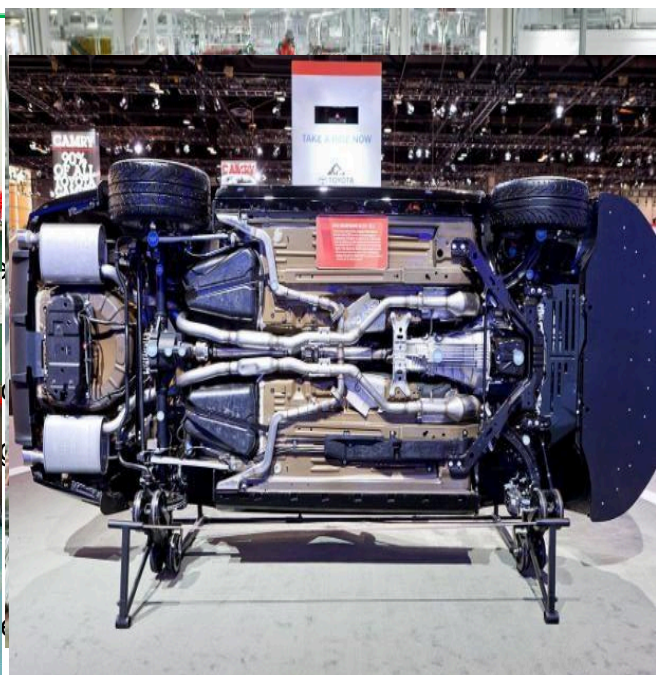
POLYTECHNIC
CENTER OF ACADEMIC EXCELLENCE



MECHVISION

Edition-2020-21

Mechanical Engineering Department



methodology, inviting industry experts from various areas to disseminate subject knowledge in Mechanical Engineering.

- ❑ Motivating students to undertake the Research Oriented studies, participate in competitions at all levels, grasping new techniques and methods which can be improved on further
- ❑ Conducting and participating in seminars, workshops and training programs with a view to make the students industry ready and improve their employability factor for global career ahead.
- ❑ To create quality professionals capable of planning, designing and analytical skills for better infrastructural development in the field of Mechanical Engineering.

Editor's Desk

We are pleased to present 2020-21 Edition of Mechvision. In this Edition you all will find an article on “Bus Rapid Transit System” This edition focusses on sanitation of water and mechanically stabilized earth wall structure. Other contributions of students & faculties of Department of Mechanical Engineering in the month of June is highlighted.

Bus Rapid Transit System

Overview

Bus Rapid Transit (BRT), also called a bus-way or transit-way, is a public transport system designed to improve capacity and reliability relative to a conventional bus system. It typically includes roadways that are dedicated to buses to reduce delays caused by passengers boarding or leaving buses, or purchasing fares. BRT aims to combine the capacity and speed of a metro with the flexibility, lower cost and simplicity of a bus system.

Vehicle capacity, which can range from 50 for a conventional bus up to some 200 for an articulated vehicle arranged for standing passengers. The theoretical maximum throughput measured in passengers per hour per direction for a single traffic lane is some 90,000 passengers per hour i.e. 250 passengers per vehicle and one

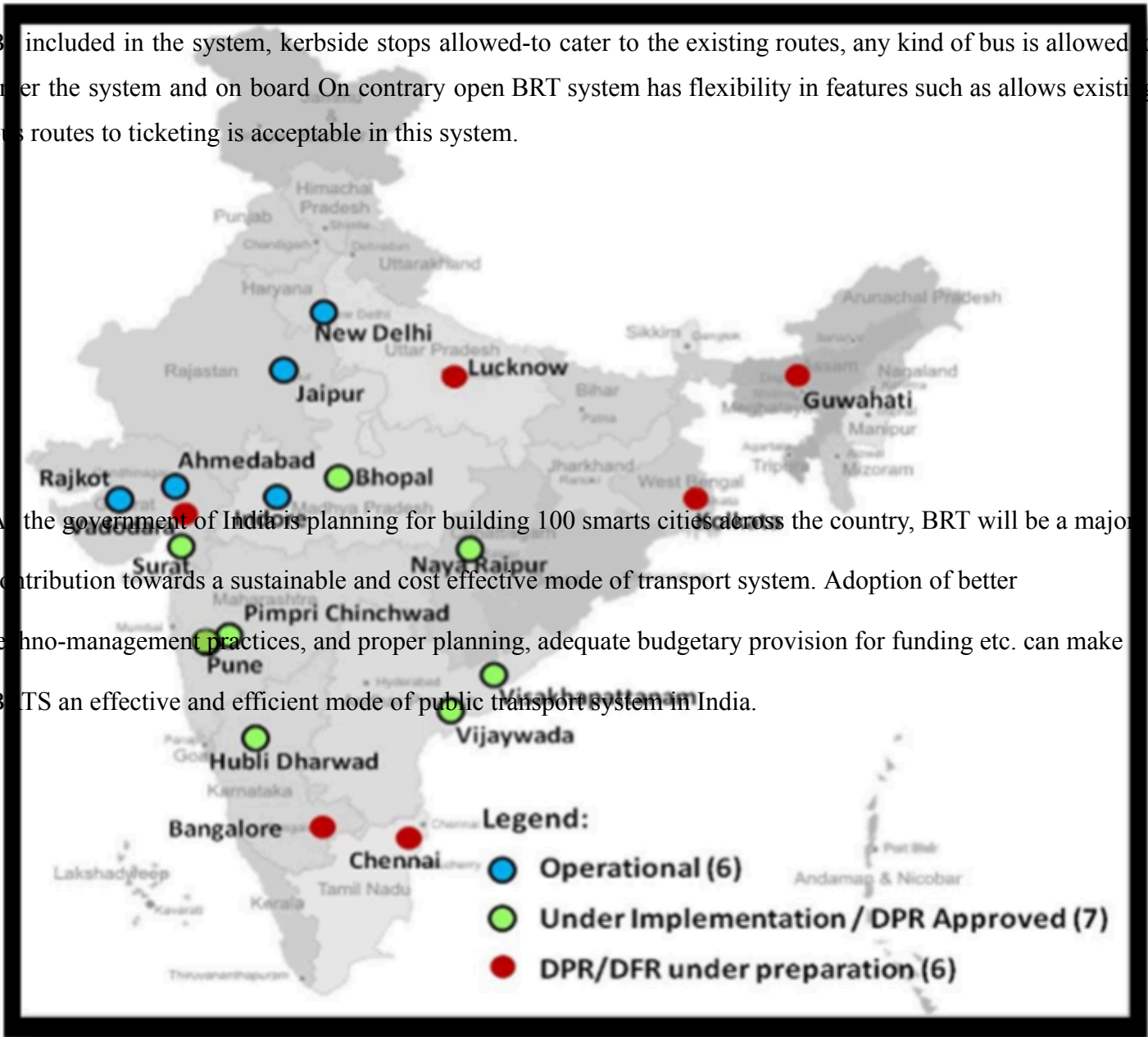


The first BRTS in India is Rainbow Bus Rapid Transit System in Pune, started in 2006. Buses take up over 90% of public transport in Indian cities. Services are mostly run by state government owned Transport Corporations.

BRT systems have proved efficient in terms due its features are segregated busways on the majority of the network length, location of the bus station, provides a good integration of network of routes and corridors.

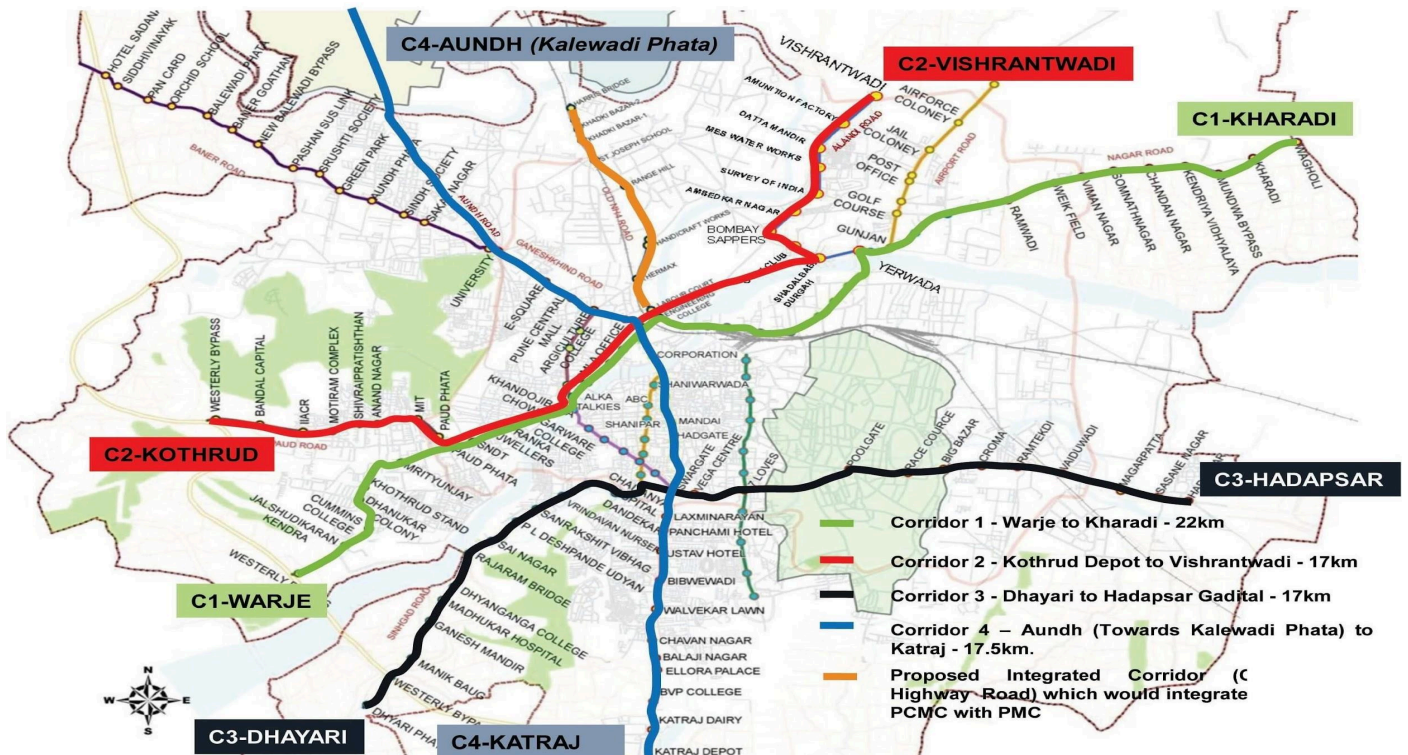
Be included in the system, kerbside stops allowed-to cater to the existing routes, any kind of bus is allowed to enter the system and on board On contrary open BRT system has flexibility in features such as allows existing bus routes to ticketing is acceptable in this system.

As the government of India is planning for building 100 smart cities across the country, BRT will be a major contribution towards a sustainable and cost effective mode of transport system. Adoption of better techno-management practices, and proper planning, adequate budgetary provision for funding etc. can make BRTS an effective and efficient mode of public transport system in India.



Do you know.....?

India's first high-quality bus-rapid-transit system was inaugurated in 2009 in Ahmedabad — the Janmarg bus-rapid-transit. Janmarg set a national benchmark and inspired systems across India, including the Rainbow bus-rapid-transit in the twin cities of Pune and Pimpri-Chinchwad that was launched in 2015.



Yoga Day And Environmental Day

YOGA DAY

Our honorable P.M. Shri NARENDRA MODI proposed Yoga Day on 27th September 2014. Every year 21st June is celebrated as international yoga day. Yoga is an invaluable gift of Indians ancient tradition. It embodies unit of mind and body, thought and action, restraint and fulfilment.

This year on 6th WORLD INTERNATIONAL YOGA DAY Universal college of engineering commemorate yoga day. An initiative was taken by our AISSMS Polytechnic involving all , teaching faculties and other beneficiaries.

Due to over corona pandemic we celebrated this event in our college. Occasion started with words of Mrs.V.S. Gaikwad, She advised us as in this fitness treak world people relied on gymnasium from a long time due to corona pandemic all gymnasium, sports club are shut close to in inculcate social distancing. In this time span Yoga can have proved efficient as it can be done at home without interruption to social distancing.

Further the session was handed over to faculty coordinator. A online video was launched on platform such as Google meet and you tube. This video included various asanas performed by student and staff. Audio upgradation of video and editing were taken care by Institute. All participants performed these asanas at their home along at their family members. The video also includes information about our immunity system and some immunity boosting practices were discussed. The online session proved helpful to once again evoke yoga practice day to day





WORLD ENVIRONMENTAL DAY

World Environment Day is celebrated on 5 June every year, and is the United Nations' principal vehicle for encouraging awareness and action for the protection of the environment. First held in 1974, it has been a flagship campaign for raising awareness on environmental issues emerging from marine pollution, human overpopulation, and global warming, to sustainable consumption and wildlife crime. World Environment Day has grown to become a global platform for public outreach, with participation from over 143 countries annually.

Each year, WED has provided a new theme that major corporations, NGOs, communities, governments and all celebrities worldwide adopt to advocate environmental causes.



Tree Plantation On World Environment Day

Tree Plantation On World Environment Day



CANVAS

Better to Help then Regret

Growing up, I always thought of having a husband who would love me immensely for who I am. Being financially poor, I always hesitated to go out for a movie or simply a drink, dreaming positively that it's no problem, I'll have my good days with my husband, why waste my parents hard earned money? I was under average in my educational career but had a keen interest in artistry which I wasn't aware of then.

One day, a friend asked me if I wanted to accompany her to join a makeup course. I thought of it as an opportunity to get a decent source of income since I wasn't earning a penny. She dropped off amidst but I completed it and eventually got a job as I, for instance, had found my passion. After a couple of happy years, I was married off to a man, Sumit Kumar

, who had his own house and was a businessman. There it was, Sumit Kumar Weds Pratika Shetty, I sat looking at the wedding invitation card with content that all my dreamy days of having a wonderful partner for life would come true Little did I know that I was going to have to stay in a joint family with 10 people in a two room flat. Within a year of my marriage, I found out my husband wasn't a businessman, his brother was one. My husband used to sell lottery tickets. Felt deceived but I still let it go out of love. Yea! Sounds pretty dumb of me but I had a pati parmeshwar type approach towards my marriage.

I was never enough for my husband as a wife. I had to cook in the morning and leave for work, return back home by 10:00 pm only to eat all the leftovers without a single kind word from Sumit. I loved my husband despite his flaws, gave him my salary for managing the house. My days worsened after he started physically abusing me. I ended up being emotionally stressed at work. My husband didn't drink nor smoke, had an amazing personality socially, had family support and I was alone, completely left out. I really tried being the perfect wife, managing the house as well as work but nothing worked. He made me miserable with nowhere to go, kept a watch on me by coming to my workplace so I couldn't meet my family members.

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I couldn't share anything with my colleagues as they were friends with him and thought of him as a perfect husband. I felt like I was drowning with nobody to help me, absolutely nobody. I've had several sleepless nights with tears in my eyes, trying not to sniff so he couldn't hear me. Thought I wasn't enough and continued self-doubting myself as a wife. Cursed myself to be born with this fate. I preferred spending time alone to stay away from my colleagues. Continued blaming myself and kept going down this dark, dark hole of self-guilt.

One day, Sumit hit me so much that I had bruises on my face and hands. I left the house for work in the same condition. I reached work, got a lot of stares but ignored. During lunch time, a female colleague came forward and asked me what had happened. After insisting, I told her and she couldn't believe that Sumit could do such a thing, gave me hug and I let go. Cried my guts out and shared everything. She stayed alone on rent and offered help, told me not to go home and to file for a divorce. She, out of all the people reached out for help, a complete stranger. It took a lot of strength to get out of all this but if it wasn't for her, I would have died internally. She gave me hope to live, to be confident, to be independent and most importantly, to fight. Today, I own a house, live alone, visit my family, have friends and I have her, Alicia, my best friend. I am living all my dreams, I go for movies, cafes and am a successful makeup artist. So what if I do it alone. Sometimes, you just need someone who listens. It can make a huge difference, it can save a life. It's better to help than regret when it's too late. Be happy and stay strong. You are not alone.