Course: **Highway and transportation Engineering**

Midterm project, Deadline: 11-04-2020

Follow the Guide lines provided with template. Article should include:

* Author name and data
* Abstract
* Key words
* Introduction
* Main body of the article (methodology, Results, etc.)
* Conclusion
* Reference

Try to read at least 20 research articles on the assigned topics.

Use the online resources Scholar.google.com; sciencedirect.com

Do not copy paste. Try to express in your words.

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| Sr. No | Student | Topic |
| Groups 1: Transportation: operations |  |
| 01 | MUHAMMAD ILTAF KHAN | Identification of accident black spots  |
| 02 | WASEEM AKTHAR | traffic accidents analysis and cause investigation over the past decade |
| 03 | MUHAMMAD KASHIF | Potential of ITS to improve safety and Mobility  |
| 04 | MUHAMMAD AFAQ | Speed cameras - their true effect on driver behavior |
| 05 | MOHSIN ABBAS | Driving speeds and pedestrian safety |
| 06 | MOHAMMAD TALHA KHAN | guidelines for the approval of barriers and crash cushions. |
| 07 | MUHAMMAD USMAN | Accidents at four-arm roundabouts and dual-carriageway junctions  |
| 08 | NAEEM AFZAL | evaluation of risk on roadway curves |
| Groups 2: Transportation Planning |  |
| 01 | Malik Muhammad haris | Transport measures to improve air quality |
| 02 | Atif abbas | Improving energy efficiency from traffic control systems |
| 03 | Ali hassan | Giving cyclists the green light: prioritising cycles at traffic signals. |
| 04 | M faisal | Road accident characteristics and socio-economic deprivation |
| 05 | Numan abbas | Measuring bus passenger preferences |
| 06 | Naeem |  A public transport demand forecasting model  |
| 07 | Abdul rehman | A model for predicting seasonal traffic |
| 08 | Asad iqbal | How can traffic engineers help manage our environment? |
| Groups 3: Transportation: Maintenance |  |
| 01 | ABDUR REHMAN | methods and equipment to conduct pavement distress surveys |
| 02 | HAMZA USMAN | Modification of paving asphalt binders |
| 03 | ABDUL WAQAR | Analysis of rigid pavement distresses |
| 04 | Muhammad Taimour Tariq | Analysis of flexible pavement distresses |
| 05 | Bsct\_f17\_Lc\_018 | Development of a model for estimating International Roughness Index from pavement distresses |
| 06 | Bctf18m014 | Pavement condition rating system: review of PCR methodology. |
| 07 | Noman shehzad | Pavement deterioration and its causes |
| 08 | Skindar | Life-cycle cost evaluations of the effects of pavement maintenance |
| Groups 4: Geometric Design of Highway |  |
| 01 | Noman Ijaz | Modeling vehicle accidents and highway geometric design relationships |
| 02 | Shahzaib | The relationship between truck accidents and geometric design of road sections |
| 03 | M.Hamza khalid | Freeway and interchange geometric design |
| Miscellaneous |  |
| 01 | Syed Qamar abbas | The design of roundabouts |
| 02 | Hassain Raza | The design of airports |
| 03 | Imran Maqsood | Level of service determination |
| 04 | Hafiz Ashr | Highway capacity determination |