

# *Civil Engineering Society*

Faculty of Engineering, University of Peradeniya



Proudly presents

*Vortex*<sup>2018</sup>

24<sup>th</sup> January 2019

Organized by Civil Engineering Society  
Faculty of Engineering  
University of Peradeniya

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# CIVIL ENGINEERING SOCIETY

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### UNIVERSITY OF PERADENIYA



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## Message from the Head, Department of Civil Engineering University of Peradeniya.

Vortex is the last event of the annual calendar of activities of the Civil Engineering Society. It gives a mixed feeling of happiness as well as sadness in writing this message at the time of celebrating the Vortex. When it reminds me that another group of young budding engineers are ready to embark on a journey as engineers, it gives me great happiness when I think about the time they spent with us at the faculty. It also gives a bit of sad feeling when it reminds me that this group will not meet us regularly again at lecture rooms and faculty corridors.



Anyway, if there is a meeting, there should be a separate one day or the other. I like to wish all those leave us soon all the best for a successful future.

All the lessons learned in lecture rooms, labs, design classes, field work should broaden your knowledge and sharpen your skills. Fundamentals learned during the undergraduate will never become redundant or obsolete as many applications developed on the fundamentals you learned. Knowledge and skills you gained should give you all the requirements to become an engineer.

I wish you again all the very best for your future path. Bon Voyage

Jayalath Edirisinghe

Head,

Department of Civil Engineering.

## Message from the President, Civil Engineering Society Faculty of Engineering, University of Peradeniya.

“Vortex” is a traditional event organized annually by the Civil Engineering Society (CES) which is a Civil Engineering students and staffs get together and especially the last event of the current CES executive committee. This event also planned at the last academic week of the current final year students who are going to complete their undergraduate life with this university. I take this opportunity to welcome the Dean Engineering, all the academic staff members and students of the Department of Civil Engineering, sponsors and co-sponsors of this event and all the industry participants to this Vortex 2018. This Vortex event is an earned celebration after tireless one year filled with many different activities of the current Ex-Co. I am sure each and every member of this Ex-Co family had many memorable experiences during this one year time. Many activities of CES provided the platform to tighten the bond between students and the academic staff members and also enhanced interaction of students with many leading Civil Engineering companies in Sri Lanka.



This year, we introduced LANWA Awards Programme 2018 for Engineering Communication and we have successfully completed 5 different categories of Engineering Communication awards which will be presented at this Vortex event. Congratulations to all the winners and my appreciation to those who all participated this LANWA Awards Programme 2018.

At this moment, I thank all the members of the CES those who extended their support in many different ways for the benefit of this society. I also wish the final year undergraduate students who are going to sit for their final exam in coming weeks for a bright future and a wonderful career.

Wishing you all a pleasant and an evening filled with lots of fun and entertainment.

**Dr. S.K. Navaratnarajah**  
**President of Civil Engineering Society**

## Message from the Vice President, Civil Engineering Society Faculty of Engineering, University of Peradeniya.

After another successful year of Civil Engineering Society today we conclude our journey at 'Vortex 2018'. CES has successfully organized various activities throughout the year such as Annual Seminar, Soft skills Workshop, Spaghetti Bridge Competition, INSEE – Mix Design Challenge, CES Talk Series and Lanwa Awards.



The colorful event that you are gazing upon today is a reminder of unforgettable memories we gathered throughout past 3 years as civil engineering undergraduates.

In this last event of CES calendar I would like to express my heartiest gratitude to head and the staff of civil engineering department and for the guidance and help given towards CES activities. Also, my gratitude goes to the president, secretary, senior treasurer and other members of CES committee 2018. Finally, I'm thankful to all the members of CES members for their active participation and enormous contribution to CES activities.

Good luck on your future endeavors!

Prabhath Gunasinghe,  
Vice- President,  
Civil Engineering Society.

## **Vortex 2018 - Program**

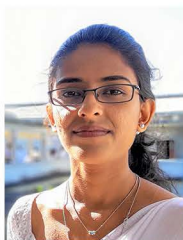
7.00 p.m. – 7.05 p.m.	- Inauguration and Lighting of Oil Lamp
7.05 p.m. – 7.10 p.m.	- Welcome Speech by President of CES Dr.S.K.Navarathnarajah
7.10 p.m. – 7.20 p.m.	- Video Presentation on past CES activities
7.20 p.m. – 7.30 p.m.	- Address by the Head of the Department Dr.Jayalath Edirisinghe
7.30 p.m. – 7.40 p.m.	- Address by Dean, Faculty of Engineering Prof.G.B.B.Herath
7.40 p.m. – 7.50 pm.	- Verity show
7.50 p.m. – 8.10 pm.	- LANWA Awards and presenting of other certificates
8.10 p.m. – 8.25 pm.	- Sponsor's message
8.25 p.m. – 9.00 pm.	- Variety show
9.00 p.m.	- Poster presentation and Dinner

# E13 - Civil





E/13/001  
**Lakshani Abeykoon**  
lakshaniabey@gmail.com  
0772902738



E/13/002  
**Lakma Abeyratne**  
abeyratnelka@gmail.com  
0714295260



E/13/003  
**Sonali Abeysinghe**  
sonaliabeysinghe@gmail.com  
0776608370



E/13/005  
**Sandun Champika**  
0714774351



E/13/007  
**Shamees Ahamed**  
shamees45@gmail.com  
0769152666



E/13/009  
**Sharani Jayapada**  
0715106601



E/13/012  
**Himash Amukotuwa**  
amukotuwas@gmail.com  
0712864442



E/13/014  
**Anubamaa**  
anubama07@gmail.com  
0771472002



E/13/015  
**Janith Anupama**  
anupamae13@gmail.com  
0715745767



E/13/016  
**Lasanthi Anurdaha**  
lganuradha22@gmail.com  
0714655189



E/13/017  
**Chamal Anuranga**  
chamalanuranga937@eng.pdn.ac.lk  
0705756869



E/13/020  
**Samadhi Archana**  
archanaliyanage82@gmail.com  
0713730815



E/13/021  
**Nuwan Ariyadasa**  
nuwanmadushanka021@gmail.com  
0713815254



E/13/022  
**Isuru Ariyaratne**  
isuru.ariyaratne94@eng.pdn.ac.lk  
0773475387



E/13/024  
**Shihantha Aththanayake**  
shihanthaaththanayake@gmail.com  
0710372945



E/13/026  
**Nuwanthi Aththanayaka**  
darshika9007nu@gmail.com  
0711379642



E/13/030  
**Lasantha Bandara**  
bandaradda@gmail.com  
0710576771



E/13/034  
**Indrajith Madhushan**  
nbindrajith@gmail.com  
0717172138



E/13/035  
**Dinuka Bandara**  
0702060661



E/13/038  
**S. Biranavan**  
biranu93@yahoo.com  
0779288878



E/13/039  
**Tharaka Bollegala**  
tharaka94priyanjula@gmail.com  
0719277954



E/13/045  
**Thirumoorthy Chenthan**  
kajanithirumoorthy@gmail.com  
0773124378



E/13/046  
**Lasith Chinthaka**  
lasithchinthaka6@gmail.com  
0713915514



E/13/049  
**Isuri Dasanayaka**  
iadasanayaka49@gmail.com  
0713574977



E/13/065  
**Vimukthi Dikkumbura**  
vimukthi.dgt@gmail.com  
0719498050



E/13/071  
**Janaka Kanchana**  
0702108663



E/13/076  
**Tharuka Dissanayake**  
tharuka.dissanayake93@gmail.com  
0710810699



E/13/080  
**Chathura Dissanayake**  
Chathurab.dissanayake@gmail.com  
0784375512



E/13/083  
**Dushyanka**  
dushy994@gmail.com  
0774192737



E/13/086  
**Thiloka Edirisooriya**  
edirisooriyathiloka@gmail.com  
0713215514



E/13/091  
**Sumudu Ekanayake**  
sumudu.ekanayake69@eng.pdn.ac.lk  
0766265344



E/13/093  
**Tharindu Elapatha**  
0702017920



E/13/094  
Ruwan Eranga  
ruwanranga40@gmail.com  
0710674612



E/13/096  
Fatheen Hisham  
mhmfatheen@gmail.com  
0777702620



E/13/100  
Yasiru Kanchana  
0776680953



E/13/105  
Gajanan Kumarasamy  
gajapera@gmail.com  
0752554786



E/13/109  
Thisara Gamage  
Thisaraudakashanthagamage@gmail.com  
0710373233



E/13/111  
Amila Gayan  
amilagayan93@gmail.com  
0718908375



E/13/112  
Gowshigesan  
gowshigesan@gmail.com  
0777374191



E/13/113  
Randika Gunarathna  
randika.gunarathna@eng.pdn.ac.lk  
0717394137



E/13/114  
Dhanushka Gunarathne  
dhanu96.dn@gmail.com  
0710198943



E/13/117  
Hasinithara Gunasekara  
hasinit44@gmail.com  
0715775593



E/13/121  
Prabhash Gunasinghe  
rpg.pdn@gmail.com  
0702509494



E/13/126  
Chanuka Gunawardhana  
kgchanuka@gmail.com  
0712042834



E/13/127  
Sameera Gunawardana  
0789872332



E/13/128  
Shihab haakeel  
haakeels@gmail.com  
0761701996



E/13/129  
Hafsa Maksood  
hafsamaksood@gmail.com  
0715269137



E/13/131  
Kaweesha Harshanie  
harsh.kaweesha93@gmail.com  
0713245507





E/13/134  
**Uresh Himarshana**  
himarshana@gmail.com  
0713830455



E/13/138  
**Nimantha Herath**  
kaumada.nimantha.herath@gmail.com  
0710516898



E/13/142  
**Maheshika Hettiarachchi**  
maheshikahettiarachchi92@gmail.com  
0715243522



E/13/145  
**Nimesha Indeewari**  
indeewarinimesha@gmail.com  
0717478520



E/13/146  
**Inthushan**  
inthusan1010@gmail.com  
0778153604



E/13/150  
**Janushan**



E/13/153  
**Nuwani Jayakody**  
nuwani.jayakody@pdn.ac.lk  
0716879138



E/13/156  
**Prashad Jayashan**  
prashadjayashan@gmail.com  
0713641962



E/13/162  
**Maneesha Jayathilaka**  
jayathilakamaneesha@gmail.com  
0713114282



E/13/164  
**Ashvinie Jayathilake**  
ashvinie.jayathilake@gmail.com  
0713881013



E/13/165  
**Arosha Jayathilaka**  
0714032940



E/13/173  
**Chathura Kallora**  
chaturakallora@gmail.com  
0712466953



E/13/174  
**Rishani Kalupahana**  
rishaniklphn@gmail.com  
0719826435



E/13/178  
**Ayesh Kannangara**  
aakannangara@gmail.com  
0713844846



E/13/180  
**Pulari Karunarathna**  
ipularikarunarathne@gmail.com  
0713699838



E/13/184  
**Keerthana**  
keerthunirai@gmail.com  
0775573463



E/13/187  
**Keerththanan**  
k.keerththanan@eng.pdn.ac.lk  
0767458169



E/13/189  
**Ketheshwaran**



E/13/197  
**Supun Madhushan**  
madhushanmms.bc@gmail.com  
0716027850



E/13/199  
**Priyankara Mahesh**  
cemahesh92@gmail.com  
0713459234



E/13/205  
**Sasika Liyanage**  
sasikacl@gmail.com  
0714303382



E/13/208  
**Umesh Lowe**  
umeshlowe@gmail.com  
0713575475



E/13/209  
**Lathindu Dilshan**  
lathindu07@gmail.com  
0716450294



E/13/218  
**Chalitha Mallikaarachchi**  
chalitha900@gmail.com  
0717288246



E/13/223  
**Akalanka Mendis**  
akalankam@eng.pdn.ac.lk  
0778831808



E/13/226  
**Mohamed Rimas**  
nasardeenrimas@gmail.com  
0767630995



E/13/227  
**Kasun Munasinghe**  
kmunasinghe252@gmail.com  
0711509162



E/13/230  
**Mohamed Murshid**  
murshid.a.1994@eng.pdn.ac.lk  
0779145329



E/13/235  
**Mohamed Najas**  
m.najas@eng.pdn.ac.lk  
0773034075



E/13/236  
**Ahamed Nasmî**  
ahamednasmî@gmail.com  
0777284333



E/13/241  
**Nipun Niroshana**  
wnnn1993@gmail.com  
0713689543



E/13/242  
**Rasangika Niroshani**  
niroshanitar@gmail.com  
0714233953



E/13/245  
**Lashan Thanushka**  
lashanthanushka1995@gmail.com  
0716547205



E/13/248  
**Thirumakal**  
thibap4@gmail.com  
0770835432



E/13/252  
**Amila Perera**  
amila.i.perera.1992@gmail.com  
0711834158



E/13/255  
**Kavindu Perera**  
kavindutp@gmail.com  
0717182348



E/13/260  
**Pirusanth**  
mahenthirarajapirasanth@gmail.com  
0762167081



E/13/261  
**Sulochana Pitawala**  
spitawala94@gmail.com  
0770350314



E/13/266  
**Madushi Prasanthika**  
madushi9351@gmail.com  
0716457831



E/13/269  
**Waruna Priyadarshana**  
warunapriyadarshana6@gmail.com  
0712668351



E/13/273  
**Kavinda Rajakaruna**  
kmb9484@gmail.com  
0715172928



E/13/275  
**Sanindu Rajapaksha**  
0714983055



E/13/278  
**Mohamed Ramzi**  
ramzi7693@gmail.com  
0773603076



E/13/282  
**Niranda Ranasinghe**  
nirandapathum@gmail.com  
0712346743



E/13/288  
**Sandaruwan Rasnayake**  
s.rasnayake92@gmail.com  
0717451527



E/13/291  
**Tharindu Rathnayaka**  
tharindurathnayakaaa@gmail.com  
0702516803



E/13/294  
**Harshapriya Rathnayake**  
Harshapriya.rathnayake1393@eng.pdn.ac.lk  
0716956291



E/13/299  
**Thamali Ravindika**  
thamali.ravindika@gmail.com  
0710165766





E/13/301  
Roybanuchandar  
roybanu@gmail.com  
0766035556



E/13/306  
Lahiru Samarakoon  
lahiru.smsamarakoon@gmail.com  
0711464044



E/13/308  
Osanda Samarakoon  
osanda.samarakoon@gmail.com  
0767930112



E/13/310  
Heshani Samaranayake  
heshanichathurikas@gmail.com  
0716520107



E/13/312  
Sudam Samarasinghe  
sudamselakasamarasinghe@eng.pdn.ac.lk  
0715403355



E/13/318  
Chanaka Sandaruwan  
chanakas12345@gmail.com  
0717187888



E/13/321  
Dushan Tharindu  
dushan4x4@gmail.com  
0713035010



E/13/322  
Santhoshan  
santhoshan.shan@eng.pdn.ac.lk  
0777840205



E/13/325  
M. Sathujan  
sathumsn@gmail.com  
0757959698



E/13/327  
Kumuditha Senadheera  
kumudithas@gmail.com  
0711451827



E/13/331  
Hithaisha Sensrathne  
rxhithissha@gmail.com  
0717331339



E/13/333  
Rajitha Senarathna  
0779626038



E/13/334  
Shasthri Senavirathna  
shasthrisenavirathna@gmail.com  
0717624216



E/13/336  
Kelum Senevirathna  
paespdn@gmail.com  
0711451530



E/13/338  
Eranga Senevirathna  
erangadinuka@gmail.com  
0712014054



E/13/340  
Shahmi Nilamdeen  
shahminilam@gmail.com  
0774988414



E/13/341  
**Sharuja**  
skasvt@gmail.com  
0775822143



E/13/342  
**Sathiyaseelan Shuluckson**  
shulucks1994@gmail.com  
0770787153



E/13/344  
**Sinthulan**  
k.sinthu@eng.pdn.ac.lk  
0778942233



E/13/345  
**Sujith Dinusha**  
sujithdinusha6@gmail.com  
0713814301



E/13/350  
**Udesb Srilal**  
0718876643



E/13/352  
**S.Sujanthiran**  
sujanthiran6677@gmail.com  
0779288878



E/13/353  
**Dhanushka Sumanasiri**  
dmdsdh@gmail.com  
0718985733



E/13/354  
**Chandra Madhushanka**  
0718816399



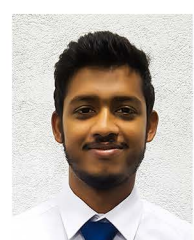
E/13/359  
**Deepthi Shashika**  
deepthishashikaspw@gmail.com  
071045417



E/13/361  
**Thanushan**  
gthanushan93@gmail.com  
0770339707



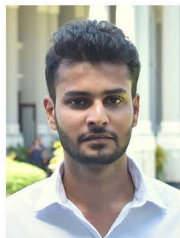
E/13/362  
**Kugaparan Thanushan**  
thanushankugaparan@gmail.com  
0771626295



E/13/369  
**Lahiru Thilakarathne**  
chathurangadglc@gmail.com  
0711834456



E/13/370  
**Thivakaran**  
thivarajah@gmail.com  
0777113621



E/13/371  
**Gayashan Thiababarawatta**  
kavindapera13@gmail.com  
0712079773



E/13/373  
**Achintha Sooriyabandara**  
0773738508



E/13/376  
**Usajikan**  
dugikan73du@gmail.com  
0773652196





E/13/378  
**Vaseekaran**  
vaseet0912@eng.pdn.ac.lk  
0772188392



E/13/381  
**Sathsara Vithanage**  
ishansathsara.1993@gmail.com  
0715745702



E/13/383  
**Anuja Walpitagama**  
anujawalpitagama@gmail.com  
0719426050



E/13/387  
**Shashini Wathsala**  
shashiniwathsala387@gmail.com  
0713003752



E/13/388  
**Madhura Wattegedara**  
madhurapw93@gmail.com  
0711210126



E/13/392  
**Asanka Weerasinghe**  
dinushi.asanka@gmail.com  
0719004430



E/13/393  
**Piyumi Weerasinghe**  
piyuwickramasinghe00@gmail.com  
0716459055



E/13/404  
**Supun Wijendra**  
supunwijendradst@gmail.com  
0711834306



E/13/405  
**Chanaka Wijerathne**  
chanakawijerathne138@gmail.com  
0715418620



E/13/406  
**Dilanka Wijesekara**  
dilankacm@gmail.com  
0716409353



E/13/407  
**Dakshitha Wijesinghe**  
dakshitha.wijesingha@eng.pdn.ac.lk  
0771667836



E/13/408  
**Malshan Wijesinghe**  
malshandj.sac@gmail.com  
0779977121



E/13/413  
**Pamodithya Wijeyawardana**  
2915pamow@gmail.com  
0777078974



E/13/414  
**Maduka Wimaladeera**  
madhukawimaladheera@gmail.com  
0712397889



E/13/416  
**Nayanatara Gamage**  
nayanataragamage@yahoo.com  
0713476694



E/13/417  
**Nimana Randaya**  
rpnrandaya@gmail.com  
0711512351



E/13/418  
**Chanaka Liyanaarachchi**  
dcliyanarachchi@gmail.com  
0713463904



E/13/419  
**Prasad Udayanga**  
udayangatgp@gmail.com  
0713459476



E/13/421  
**Milojan**  
keerthimilojan8@gmail.com  
0765203535



E/13/422  
**Harsha Gayan**  
gayanh04@gmail.com  
0711205072



E/13/423  
**Indunil sandaruwan**  
indunilsandaruwan09@gmail.com  
0714557259

what ever the challenge, "the right solution...."



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No. 71, Negombo Road,  
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Tel: 037 2221836  
Fax: 037 2221839  
Email: [info@sathuta.net](mailto:info@sathuta.net)  
URL: [www.sathuta.net](http://www.sathuta.net)

**Asphalt Plant:**  
"Sathuta Industrial Park"  
Alakoladeniya, Malkaduwwa  
Kurunegala  
Tel: 037 312 4999  
Email: [sip@sathuta.net](mailto:sip@sathuta.net)

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**Concrete Plant 1 :**  
"Sathuta Industrial Park"  
Alakoladeniya, Malkaduwwa  
Kurunegala  
Tel: 037 312 4999  
Email: [info@sathutareadymix.net](mailto:info@sathutareadymix.net)  
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**Concrete Plant 2 :**  
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**Concrete Plant 3 :**  
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Dambulla Road, Bathalagoda,  
Ibbagamuwa  
Tel: 037 225 9991  
Email: [info@greensac.com](mailto:info@greensac.com)  
URL: [www.greensac.com](http://www.greensac.com)

**Agriculture Farm:**  
"Sathuta Industrial Park"  
Alakoladeniya,  
Malkaduwwa  
Kurunegala  
Tel: 037 312 4999  
Email: [sip@sathuta.net](mailto:sip@sathuta.net)

## CES Talk Series

CES Talk Series was organized throughout the year 2018 with the purpose of improving the knowledge of civil engineering undergraduate. Over the year, 9 CES talks were organized with a versatile range of topics related to civil engineering field with the collaboration of local and international resource persons. Both academic staff and undergraduate students participated these talks eagerly and gathered knowledge on updating world of civil engineering.





## CES Talk Series

- Risk Based Assessment of European Infrastructure Projects by Prof.Dimitris Diamantidis.
- An Introduction to Fire Safety Engineering in the UK by Dr.T.D.Gerard Caniscus.
- University of Peradeniya: Remembering Our Roots by Prof.Buddhi Marambe.
- Reinforced Soil Structures Using Geosynthetics by Eng.Gerard Tan.
- Forensic Engineering by Prof.Ranjith Dissanayake.
- Climate Change Impact on Water Environment : Examples from Asian River Basins by Dr.Sangam Shrestha.
- Women Engineering Leadership in Water Sector Development.
- Geopolymers & Alkali Activated Materials by Dr.David Law.
- Engineering Ethics by Eng.P.H.Sarath Gamini.

## Soft Skills Workshop 2018

Soft Skill Workshop 2018 which is organized by Civil Engineering Society-University of Peradeniyawas held on 8th of December 2018 at Faculty of Engineering, University of Peradeniya. This initial session was a platform to lay the foundation to the CV writing & Interview facing and it was conducted by Ms . Bernadine Fernando from INSEE Cement Company .



## Spaghetti Bridge Competition

Spaghetti Bridge Competition is organized every year with the intension of testing the knowledge and capacity of civil engineering undergraduate student in structural engineering by building a model of a bridge using spaghetti as the basic material. These structures were evaluated by the load they can bare and best 3 groups were qualified to compete at the IESL Techno Exhibition – Spaghetti Bridge Competition at BMICH.





## Annual Seminar 2018

Annual Seminar organized by Civil Engineering Society is the largest event in the year. Annual Seminar was organized with the target of developing the interaction between the industry and the faculty while sharing the knowledge of new approaches in civil engineering world. The event was held on 12th January 2019 with the topic of 'Coastal Land Reclamation and City Development'. The event was based on development of Colombo Port City development and experts on different areas of civil engineering enriched the event with their valuable ideas. Event was sponsored by CHEC Port City Colombo (Pvt) Ltd. and Ministry of Megapolis and Western Development.





# Lanwa Scholarship Program 2018

## Engineering Communication



Ceylon Steel Cooperation Ltd. (LANWA) has been, and continues to be, a key industrial partner of the Department of Civil Engineering, University of Peradeniya with its extended assistance to enhance the academic and research culture of the Department. The Lanwa Scholars Program, in particular, has offered opportunities for exceptionally skilled students of the Department to grow professionally and harness their skills in areas where challenges exist with regard to industrial expectations.

Having recognized the emerging importance of effective communication in Civil Engineering, the Lanwa Scholars Program 2018 envisages providing scholarships to undergraduate students of the Department to encourage the Civil Engineering students to be influential communicators in the future Industry.

Applications were invited from 2nd, 3rd and 4th year undergraduate students in the Department of Civil Engineering to apply for the scholarships under the following five categories.

### **Category 1: Technical Communication: Writing**

The applicant's skills on writing up a technical communication on a given topic within a specified time was evaluated.

### **Category 2: Technical Communication: Speaking**

The applicant's skills on oral communication on a given topic within a specified time was evaluated.

### **Category 3: Technical Communication: Elevator Speech**

The applicant's skills on verbally presenting on a given Engineering topic in a short time interval (40 – 50s) resembling a brief elevator ride was evaluated.

#### **Category 4: Multimedia Communication**

The applicant's skills on innovative uses of multimedia (e.g., PowerPoint) for presenting on a given Engineering topic within a specified time interval was examined.

#### **Category 5: Video Communication**

The applicant's skills on innovative application of graphics and video animations on communicating a Civil Engineering application was evaluated.