| | | |
|---|---|---|
| | | Weeks 1 - 5 & 7 – 10:<br>Online through Blackboard Collaborate Ultra |
| Workshop | Friday, 10:00 – 12:00<br>or 12:00 – 14:00<br>or 14:00 – 16:00 | Weeks 1 – 5 & 7 – 10:<br>Online through Blackboard Collaborate Ultra<br>or face-to-face<br>http://classutil.unsw.edu.au/CVEN_T2.html |
| Course Coordinator and Lecturer | Divya Jayakumar Nair<br>email: divya.nair@unsw.edu.au<br>office: CE103, H20 | |

INFORMATION ABOUT THE COURSE

EXPECTED LEARNING OUTCOMES

***This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.***

A successful study of the first strand will enable students to:

| Learning Outcome | | EA Stage 1 Competencies* |
|---|---|---|
| Strand 1 | | |
| 1. | Explain relationships between fundamental traffic flow parameters; | PE1.1, PE1.2, PE1.3, PE1.4 |
| 2. | | |

| | | | |
|---|---|---|---|
| 13/07/2021 & 14/07/2021 (Week 7) | Introduction to road design | Route location, speed parameters | Design workshop I<br>Introduction and chainage (16/07/2021) |
| 20/07/2021 & 21/07/2021 (Week 8) | Horizontal alignment I | Horizontal alignment II | Design workshop II<br>Horizontal curves (23/07/2021) |
| 27/07/2021 & 28/07/2021 (Week 9) | Vertical alignment I | Vertical alignment II | Design workshop III<br>Vertical curves (30/07/2021) |
| 03/08/2021 & 04/08/2021 (Week 10) | Cross sections | Earthworks | Design workshop IV<br>Cross sections & Earthworks (06/08/2021) |

## ASSESSMENT

The final grade for this course will be based on the sum of the scores from the assignments and the final examination. For the values of the single components see the table below:

| Strand | Assessment | Weighting | Assessment Criteria |
|---|---|---|---|
| 1 | Moodle Quiz (Weeks 3) | 5% | An online quiz will be administered via Moodle during Week 3, 18th of June 2021, Friday, between 4PM and 6PM. The Moodle quiz will be based on the material covered in Week 1 to Week 3 lectures and workshops. It will be an open book assessment and are intended to help prepare the students for the mid-session quiz and final exam. The assessment also provides means for continuous assessment and feedback for students throughout the course. The questions will be marked based on technical accuracy. |
| 1 | Mid-Term Exam | 25% | A mid-session exam will be administered on 30th of June 2021, |

Failure to attend the quizzes/mid-term exam/final exam will result in a mark of zero. A late penalty of 10% per day will apply for failure to submit the design assignment by the stated due date. Any assignment submitted 5 or more days after the deadline will receive a mark of zero

Students who miss the assessment as a result of illness or unforeseen circumstances must apply for special considerations through https://student.unsw.edu.au/special-consideration and contact the course coordinator.

Students who perform poorly in the assignment and workshops are recommended to discuss progress with the lecturer during the term. The lecturer reserves the right to adjust the final scores by scaling if agreed to by the Head of School.

The pass mark in this course is 50% overall, however, students must score at least 40% in the final examination in order to qualify11 (e2 )]TJ -0 (h)-8.9 (a)6 P9 (.)7.9 (as1 (rt)3.6 (s)7.4 ( i)11 (n)0.9  (yt)3.5 (h)0.9 (i)11 (s)7.4 ( c)2.3 (9)0.8 (u)0

## RELEVANT RESOURCES

All required reading will be provided in the form of lecture notes. Recommended reading (available in the library):

Copies of class notes are available at the Moodle site for this course: http://teachnsw.edu.au/elearning

Principles of Highway Engineering and Traffic Analysis, Revised Edition/ Fred L. Mannering, Scott S. Washburn, Walter P. Kilareski

Modelling Transport, Fourth Edition/Juan de Dios Ortúzar, Luis G. Willumsen

- Comments: Modelling Transport, Fourth Edition is Published Online: http://onlinelibrary.wiley.com/book/10.1002/9781119993308

## DATES TO NOTE

Refer to MyUNSW for Important Dates available at:

https://student.unsw.edu.au/dates

## PLAGIARISM

Beware! An assignment that includes plagiarised material will receive a 0% Fail, and students who plagiarise may fail the course. Students who plagiarise are liable to disciplinary action, including exclusion from enrolment.

Plagiarism is the use of another person's work or ideas as if they were your own. When it is necessary or desirable to use other people's material you should adequately acknowledge whose words or ideas they are and where you found them.