

UNIVERSITY OF TEXAS AT EL PASO
IE 5385 ADVANCED QUALITY CONTROL
Spring-2020 Syllabus

| | | | | | | | | | | | | | |
|-------------------|---|------------|-----|-------------|-----|------------|-----|-------------|-----|---------|----|--------------|-------------|
| Instructor: | Jaime Sanchez, Ph. D. | | | | | | | | | | | | |
| How to Reach: | Office: Eng. Building room E226C Phone: 747-6394 E-mail: jsanchez21@utep.edu | | | | | | | | | | | | |
| Office Hours: | Tuesday and Thursday from 12:00 to 1:30 pm and Wednesday from 5:00 to 6:00 pm or By Appointments | | | | | | | | | | | | |
| Class schedule | Lectures Wednesday from 18:00 to 20:50 pm. | | | | | | | | | | | | |
| Textbook: | Statistical Quality Control , 7th Edition by Douglas C. Montgomery Publisher: Wiley; ISBN 978-1-1181-4681-1 | | | | | | | | | | | | |
| Software: | Minitab Release 18 from my.apps.utep.edu | | | | | | | | | | | | |
| Assignments: | Homework Problems will be assigned during class. They are due one week later after they have been assigned. Assignment will be graded. Assignments will not be accepted after the due date and Conclusion to the problems must be hand written . Minitab outputs need to be included when necessary. | | | | | | | | | | | | |
| Class Attendance: | Attendance will have impact on the class participation portion of your grade. Only in case of emergency, missing a class is acceptable. Work is not an excuse | | | | | | | | | | | | |
| Exams: | There will three exams during the semester and final, as well as pop quizzes. Exam dates will be announced in class. | | | | | | | | | | | | |
| Reading | Students will be responsible for doing the reading assignments. | | | | | | | | | | | | |
| Class Content: | Introduction to Statistical Process Control, Control Chart for Variables Control Charts for Attributes, Process and Measurement System Capability Analysis, Cumulative Sum and Exponentially Weighted Control Charts Control Charts for Short Production Runs Multivariate Control Charts | | | | | | | | | | | | |
| Grading scheme: | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">First Exam</td> <td style="text-align: right;">25%</td> </tr> <tr> <td>Second Exam</td> <td style="text-align: right;">25%</td> </tr> <tr> <td>Third Exam</td> <td style="text-align: right;">25%</td> </tr> <tr> <td>Assignments</td> <td style="text-align: right;">20%</td> </tr> <tr> <td>Project</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">100%</td> </tr> </table> <p>Final Exam (optional) to improve the overall grade, May 13th</p> | First Exam | 25% | Second Exam | 25% | Third Exam | 25% | Assignments | 20% | Project | 5% | Total | 100% |
| First Exam | 25% | | | | | | | | | | | | |
| Second Exam | 25% | | | | | | | | | | | | |
| Third Exam | 25% | | | | | | | | | | | | |
| Assignments | 20% | | | | | | | | | | | | |
| Project | 5% | | | | | | | | | | | | |
| Total | 100% | | | | | | | | | | | | |
| Accessibility | If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu , or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass . | | | | | | | | | | | | |
| Plagiarism: | Plagiarism or cheating will not be tolerated, anyone caught plagiarizing will receive a failing grade for the class. | | | | | | | | | | | | |

UNIVERSITY OF TEXAS AT EL PASO
IE 5385 ADVANCED QUALITY CONTROL

Statistic review

Links to videos about statistic from StatisticsLectures.com

<https://www.youtube.com/watch?v=5N7L1cGCL-w&index=53&list=PL568547ACA9211CCA>
https://www.youtube.com/watch?v=FHT6e_mdGoU&list=PL568547ACA9211CCA&index=54
<https://www.youtube.com/watch?v=enQDKXI2PdA&index=55&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=hEx0ZShqRlc&list=PL568547ACA9211CCA&index=56>
<https://www.youtube.com/watch?v=oZ3OZtc9FpI&index=57&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=Oy6Co8-XkEc&index=58&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=mWE8PxPoYJY&index=59&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=BWJRsY-G8u0&index=60&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=dH6igFVoCAw&list=PL568547ACA9211CCA&index=61>
<https://www.youtube.com/watch?v=VPd8DOL13Iw&list=PL568547ACA9211CCA&index=62>
<https://www.youtube.com/watch?v=jyoO4i8yUag&index=63&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=BRnToiWxLS0&index=64&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=wGlbyNBxEM8&list=PL568547ACA9211CCA&index=65>
<https://www.youtube.com/watch?v=zD3VIBkwc-0&index=66&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=S8DL5i2y2TU&index=67&list=PL568547ACA9211CCA>
<https://www.youtube.com/watch?v=qV-WoquC4dA&list=PL568547ACA9211CCA&index=71>
<https://www.youtube.com/watch?v=51QZa7b0Ozk&index=72&list=PL568547ACA9211CCA>