**PLOTS FOR ELEC1601 DATA**

**VARIABLES VS GRADES CORRELATION**

**MAJOR**

**-> No of topics accessed** at the appropriate week or before

vs their grades

for each student

**Goal:** if this hypothesis turns out to be true then as the course progresses tutors could identify students slacking off and provide them counselling

**-> Time spent browsing** (all videos added up) in ratio (all video lengths added up)

 vs. their grades

for each student

**Calculation:** Calculating time spent for every video for each student. Time spent is calculated by subtracting the play pause intervals for a given video and then adding them up

**Goal:** Shows the level of engagement by students correlating with grades

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**MINOR**

**-> No of videos (loaded) accessed** out of the total 13

 vs their grades

for each student

**Goal:** shows the level of engagement of student correlating with grades

**-> No of videos (ended) viewed completely** out of the total 13

vs. their grades

 for each student

**Goal:** shows the level of engagement of student correlating with grades

**-> The frequency of video week number**accessed during the exam period

vs their grades

for each student

**Calculation:** (frequency\*video week number) vs grades

**Goal:** shows that student has not studied material from earlier weeks

**-> The frequency of video week number**accessed overall with weightings for topic importance in each video

vs their grades

for each student

**Calculation:** (frequency\*video week number)\*weighting vs grades

**Goal:** shows that student has not studied material from earlier weeks

**-> Time of day videos** watched on an average

vs. their grades

for each student

**Goal:** Night Owls vs Early Birds

**VARIABLES VS WEEK**

**MAJOR**

**-> Time spent browsing** (all videos added up) in ratio (all video lengths added up)

**for each topic**

**Calculation:** calculating time spent for every video for each topic. Time spent is calculated by subtracting the play pause intervals for a given video and then adding them up

**Goal:** Shows the difficulty level of a topic

**-> Distribution of the time of day** videos watched on an average

**Goal:** Shows what time students are most productive

**-> Distribution of topics watched** over the entire semester

**Calculation:** Each topic spread placed on the same

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**MINOR**

**-> Topics repeatedly loaded** showing their difficulty  
Goal: Shows the difficulty level of a topic

**-> Topics watched during exam (loaded)** period showing importance