

WHAT MAKES A COMMON CORE COURSE GOOD?

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WHY IS THIS IMPORTANT?

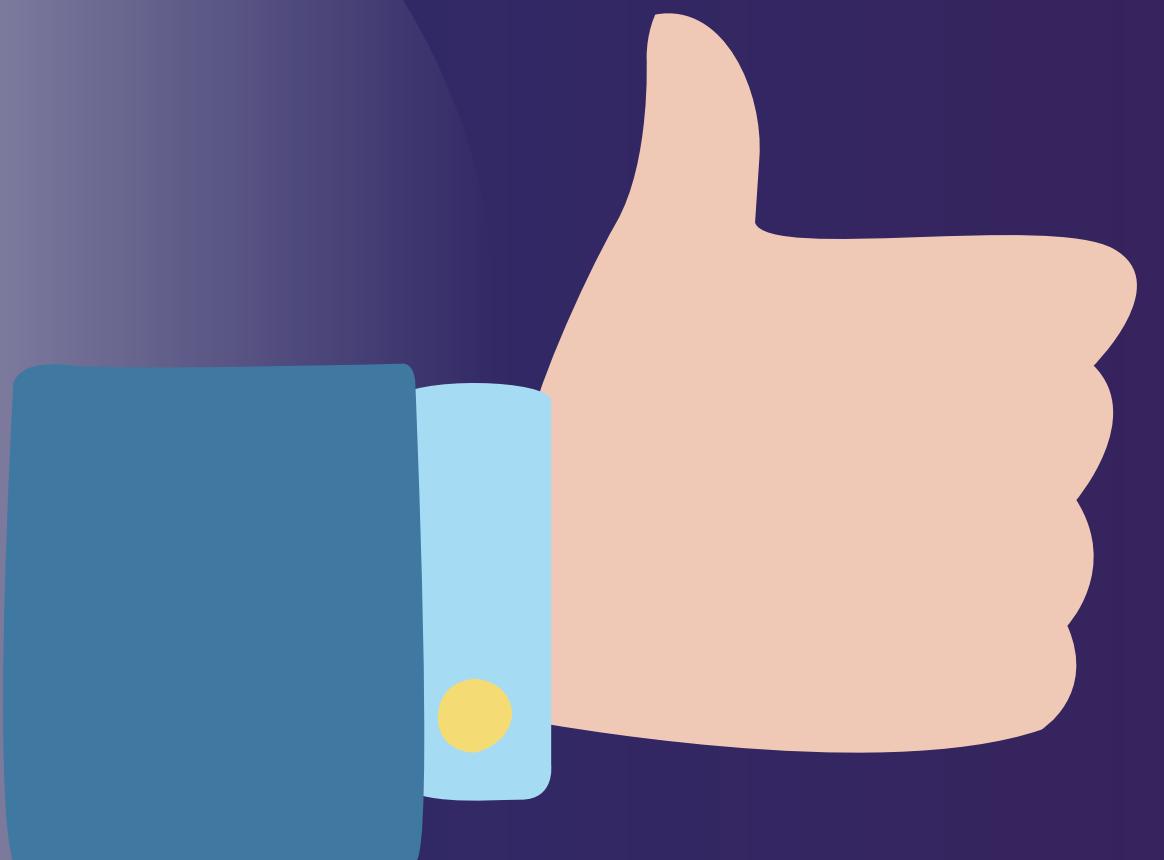
For Students

- Gather insights
- FYC Find your course

For Professors

- Improve course popularity
- Increase attention rate
- Enhance course effectiveness

WHAT DOES IT MEANS BY GOOD?



- Popular → Registration among students
- Positive Feedback → SFTL Effectiveness Rating
- High Participation/Attention → SFTL response rate

OUR DATA



WHAT IS INSIDE EACH DATA CATEGORY

Course Metadata

Course Title

Course Code

Course Schedule

Student Forum

Grade Distribution

Course Structure

Course Workload

Course Weighting

SFTL

Response Rate

Effectiveness

Enrollment Statistic

Registration Per Quota

REG_P_QUOTA



Scrape from official CC Enrollment Statistic back in August (only for Yr2 and above)

Common Core Courses 2024-2025 Enrolment Statistics						
This page is updated each hour during the course selection and add/drop periods.						
Summer Semester						
(I) Science, Technology and Big Data						
Course Code	Course Title	Sub-Class	Quota	No. of Vacancies Available	No. of Applicants Waiting for Approval	
CCST6001	Change for a Better Self (UQM, UQM)	A	60	60	0	
CCST6003	Digital Twinning Buildings and City with Minecraft Worlds	A	60	60	0	
CCST6004	Our Animal Allies: Connections with Human Well-Being	A	60	60	0	
CCST6005	Human Wellness Technologies and Analytics	A	60	60	0	
(II) Arts and Humanities						
CCHU6001	For Films' Sake! The Power of Short Films (CA)	A	60	60	0	
CCHU6002	Transdisciplinary Healthcare Solutions	A	60	60	0	
(III) Global Issues						
CCGL6001	Change for a Better Community (SCCE)	A	60	60	0	
CCGL6002	Material Ecologies: Local Practices and Global Impacts (SCCE)	A	60	60	0	
CCGL6003	A Healthy Lifestyle for a Hectic Life	A	60	60	0	
(IV) China: Culture, State and Society						
CCCH6001	Human Monkeys: Unethical Research in Manchuria (UQM, UQM)	A	60	60	0	

COURSE STRUCTURE

- Scrape data from official HKU common core website
- Use REGEX to categorize assessments into 5 categories
lecture, tutorial, presentation, exam, essay
- Add dummy categories for categorical analysis
`has_fieldtrip, has_assessment, has_presentation, has_essay, has_essay, has_lectureActivity`

Study Load

Activities	Number of hours
Lectures	24
Tutorials	12
Reading / Self-study	45
Fieldwork / Visits	4
Assessment: Essay / Report writing	45
Total:	130

Assessment: 100% coursework

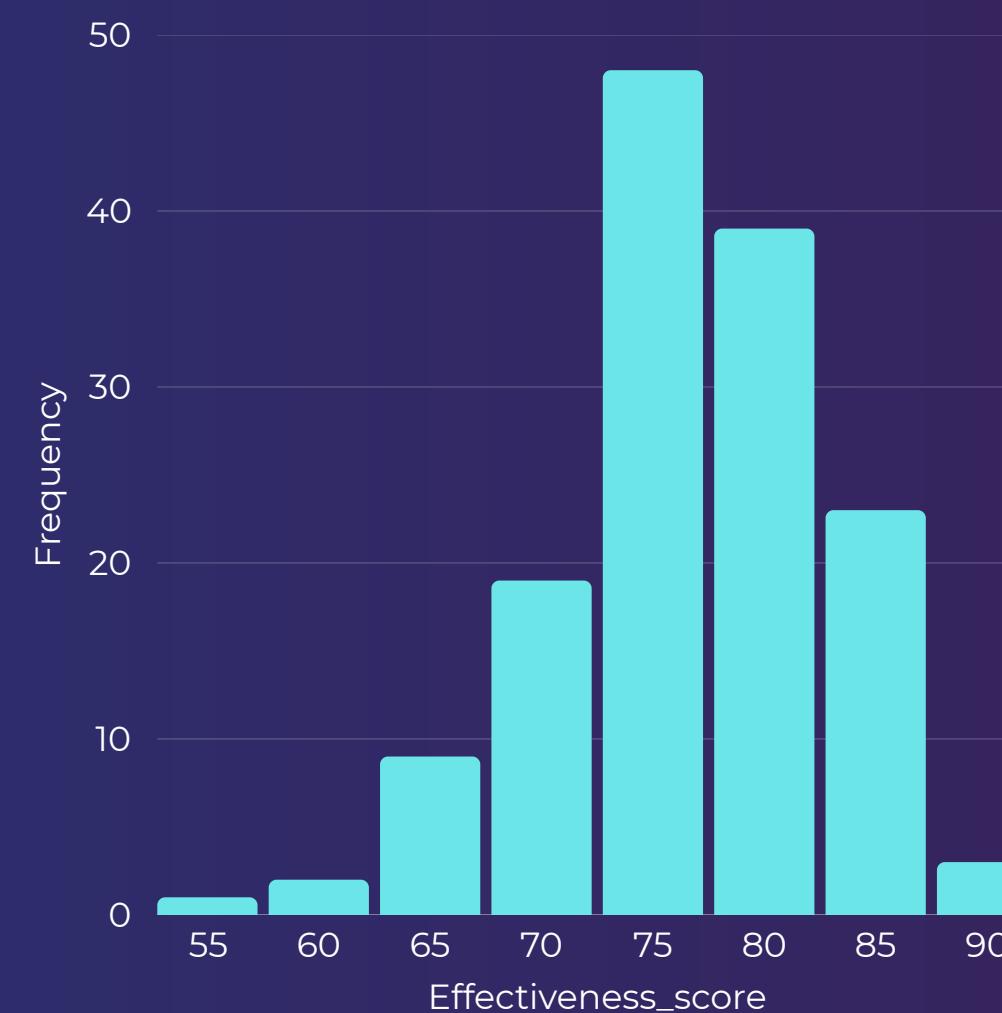
Assessment Tasks	Weighting
Project	25
Journal writing	50
Participation in tutorial discussions	25

DATA ANALYSIS

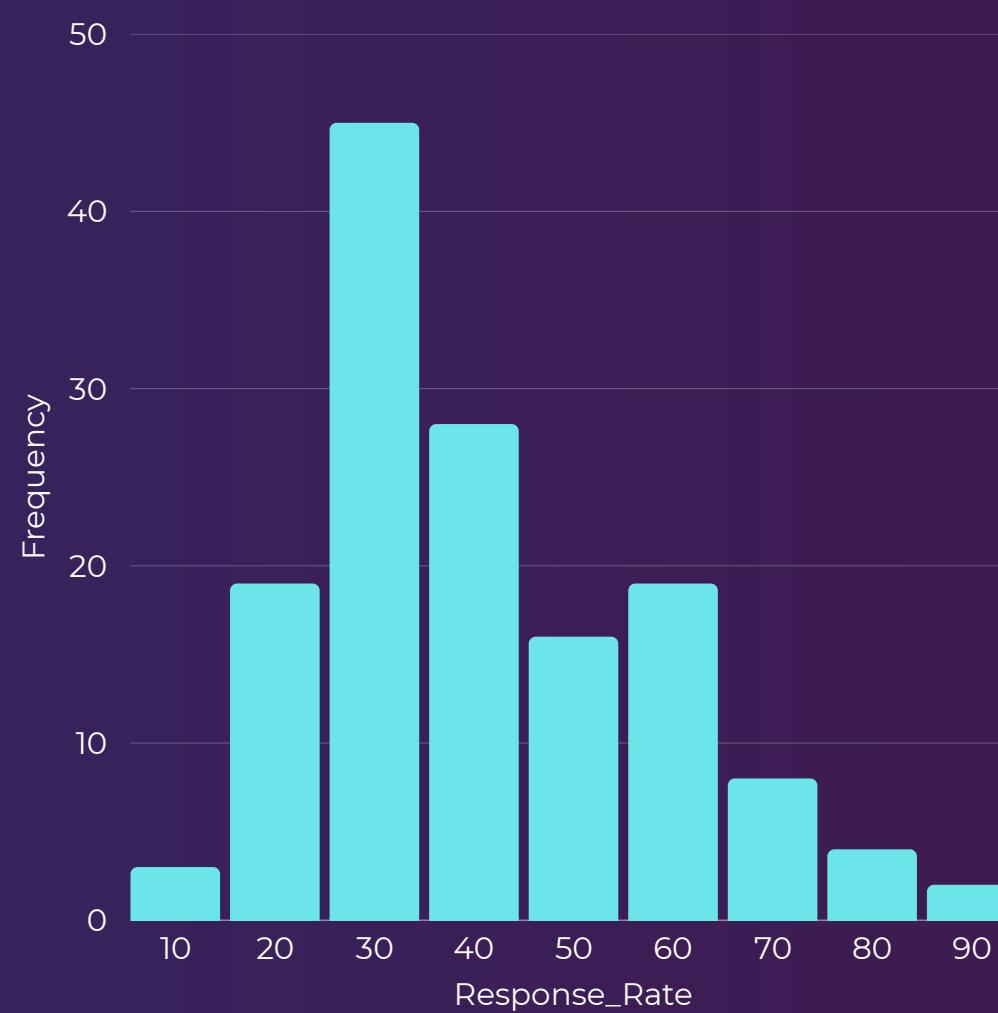


METRIC SCORE DISTRIBUTION

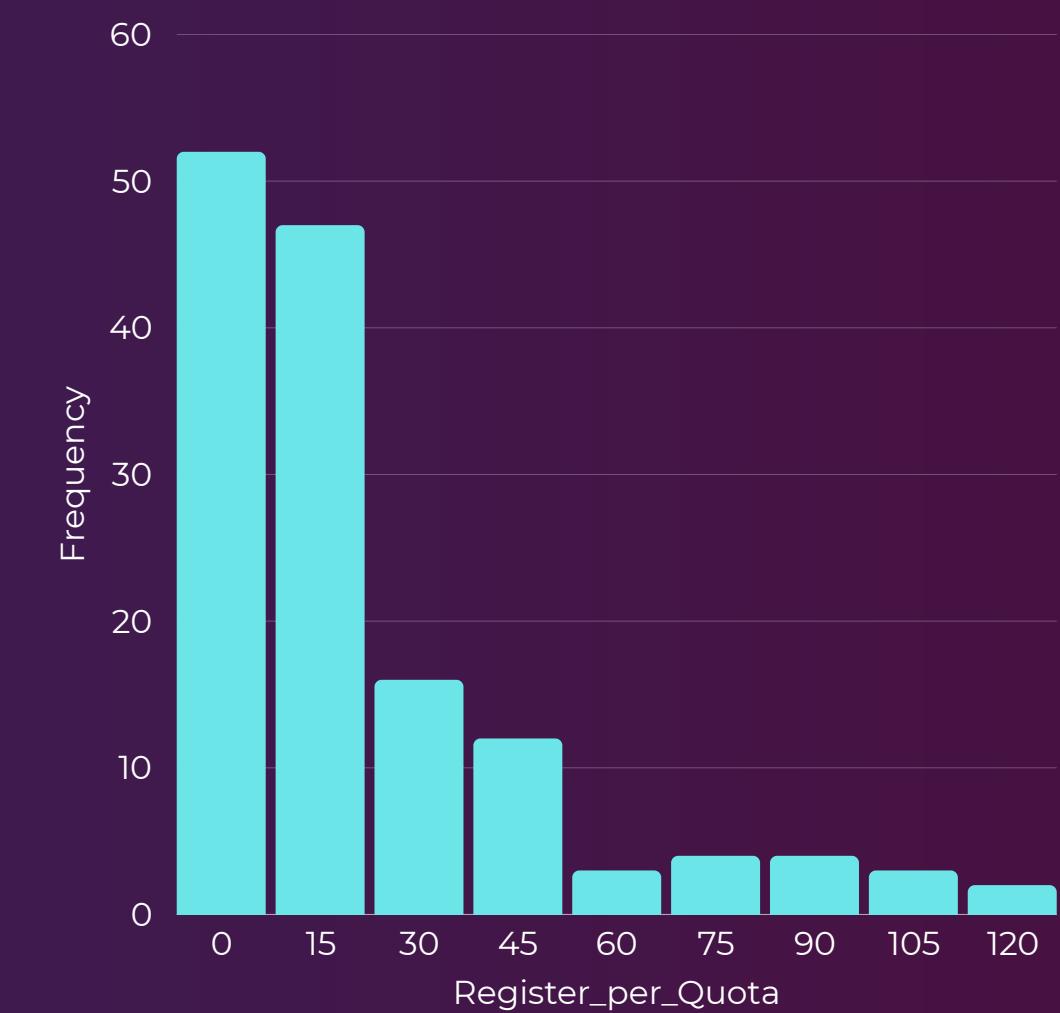
EFFECTIVENESS DISTRIBUTION



RESPONSE RATE DISTRIBUTION



REGISTER PER QUOTA RATE DISTRIBUTION



METRIC SCORE CORRELATION



Low correlation among target features



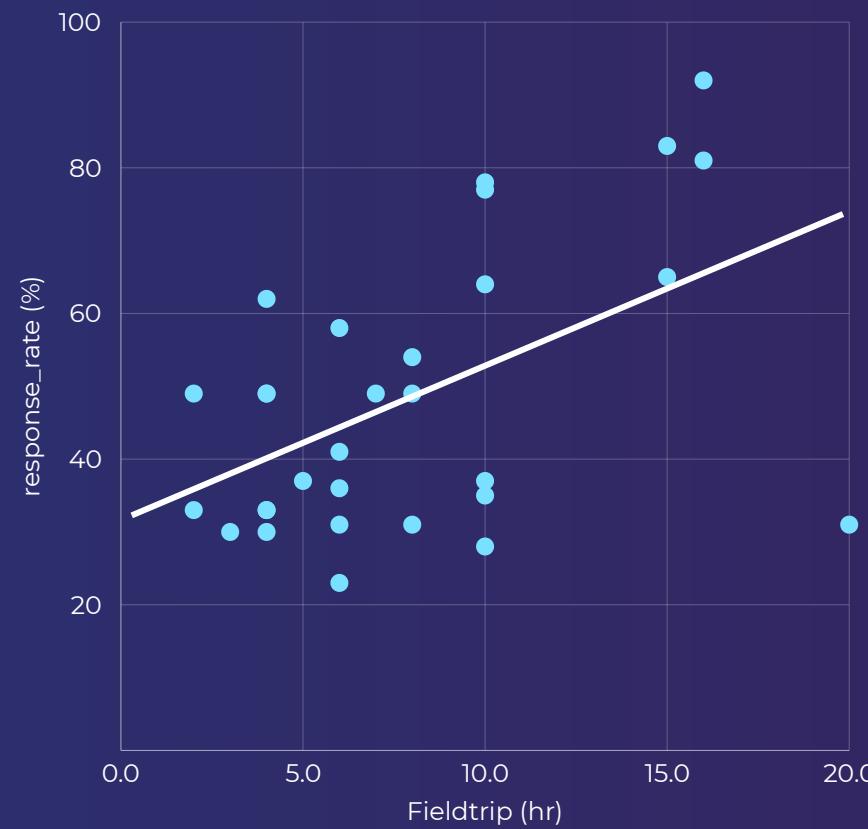
FACTOR ANALYSIS

Does X impose an effect on
effectiveness/reg_p_quota/response_rate?

$$H_0: B_j = 0$$

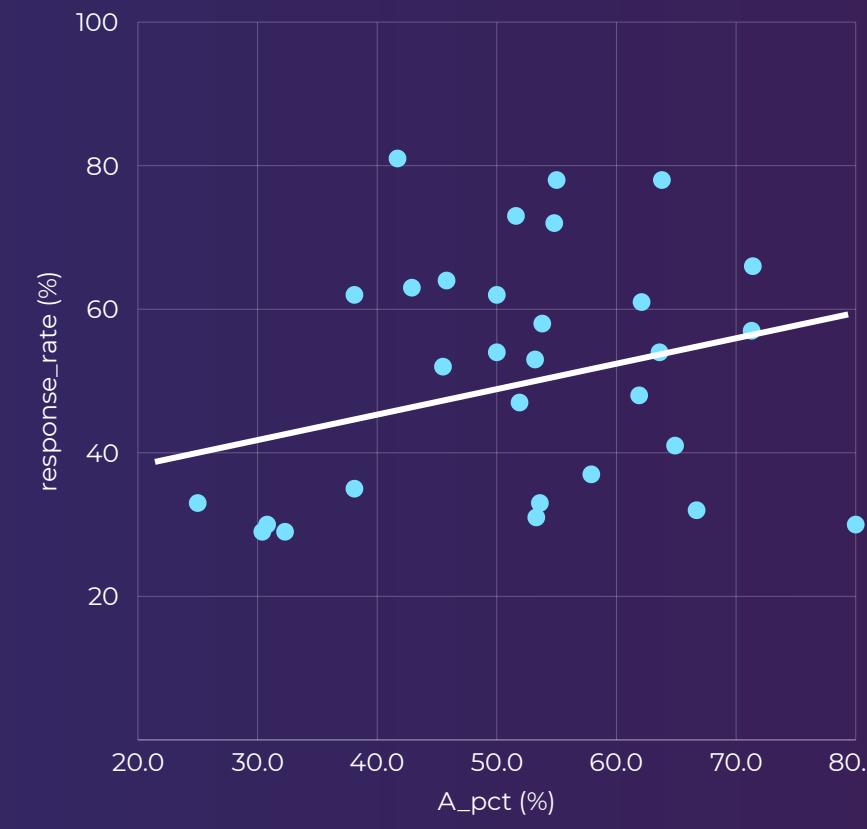
SOME INTERESTING SCATTERPLOTS

FIELDTRIP VS RESPONSE RATE



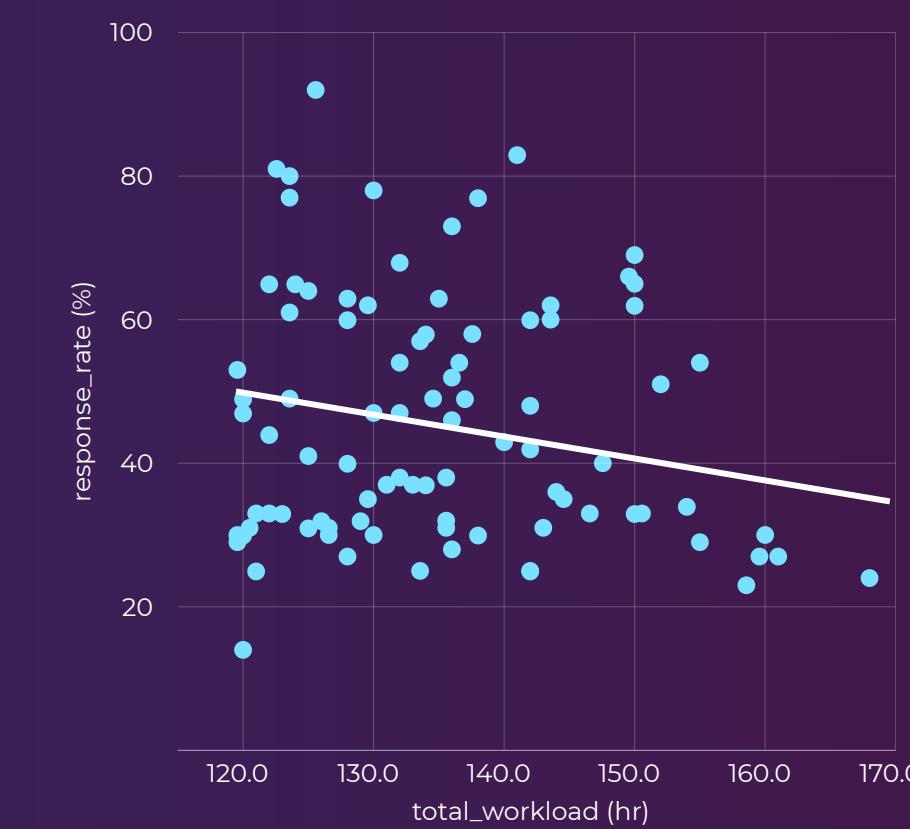
BETA_COEF: 2.07
P-VALUE: 0.005

A_PCT VS RESPONSE RATE



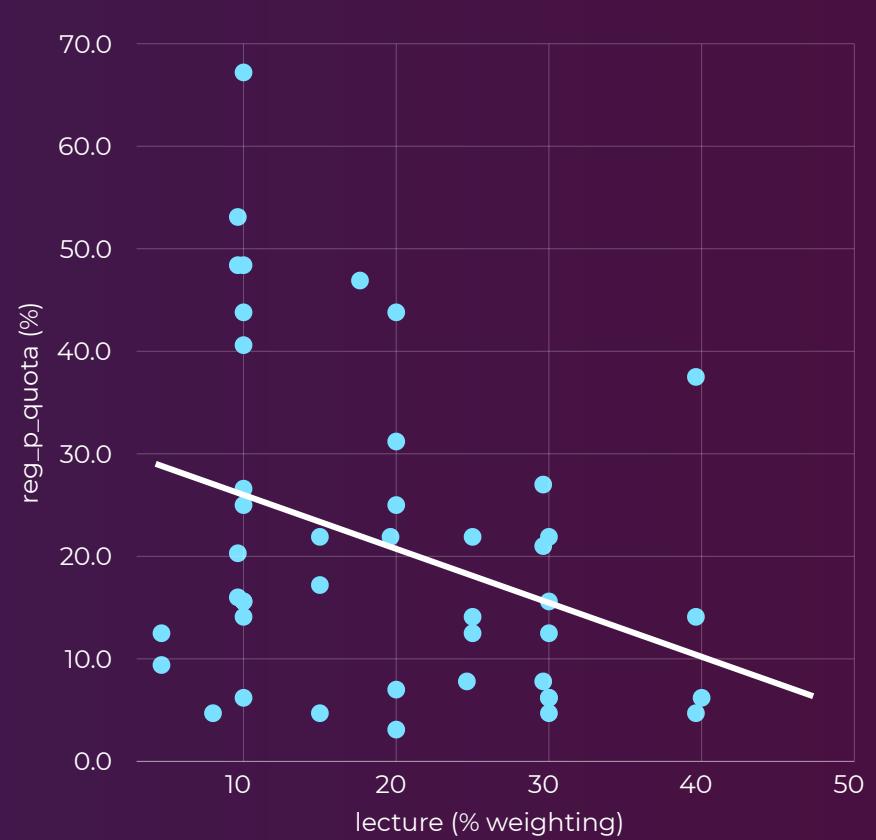
BETA_COEF: 0.34
P-VALUE: 0.043

TOTAL WORKLOAD VS RESPONSE RATE



BETA_COEF: -0.24
P-VALUE: 0.041

LECTURE VS REG_P_QUOTA

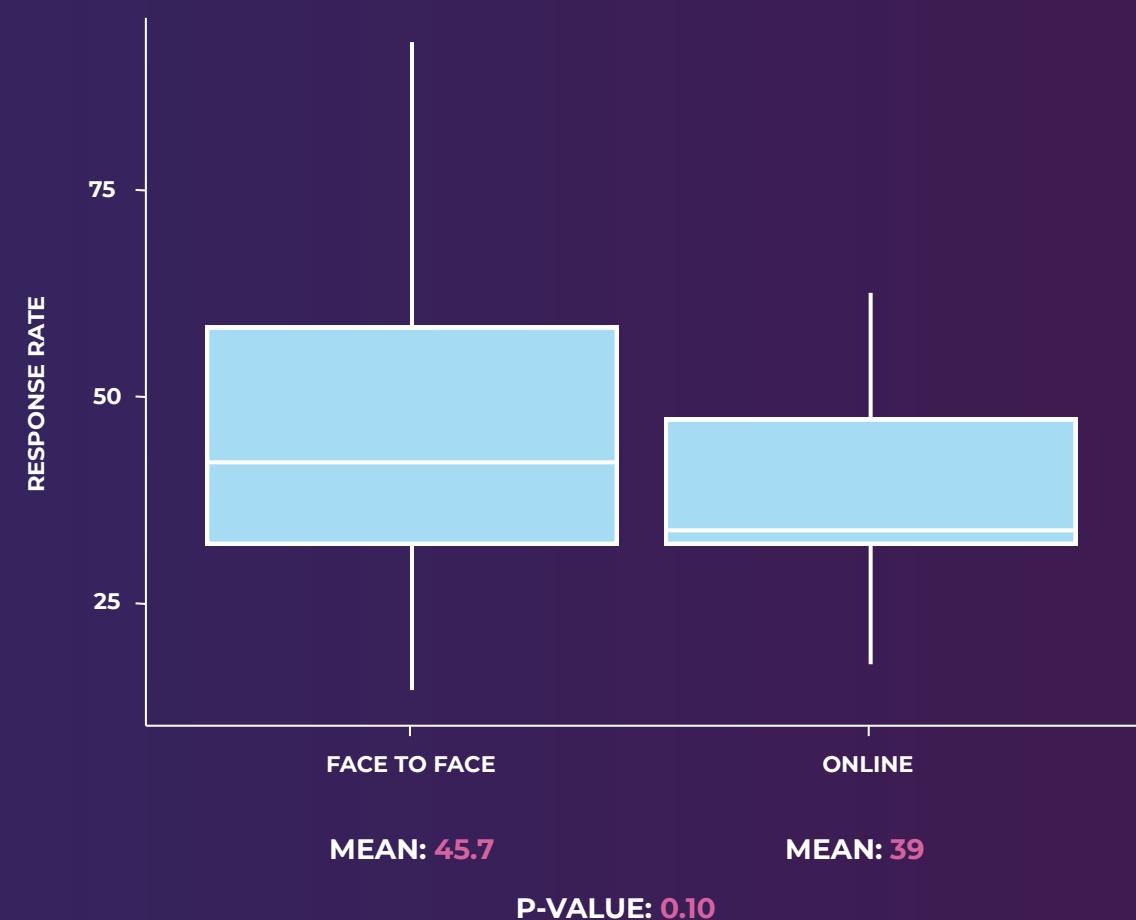
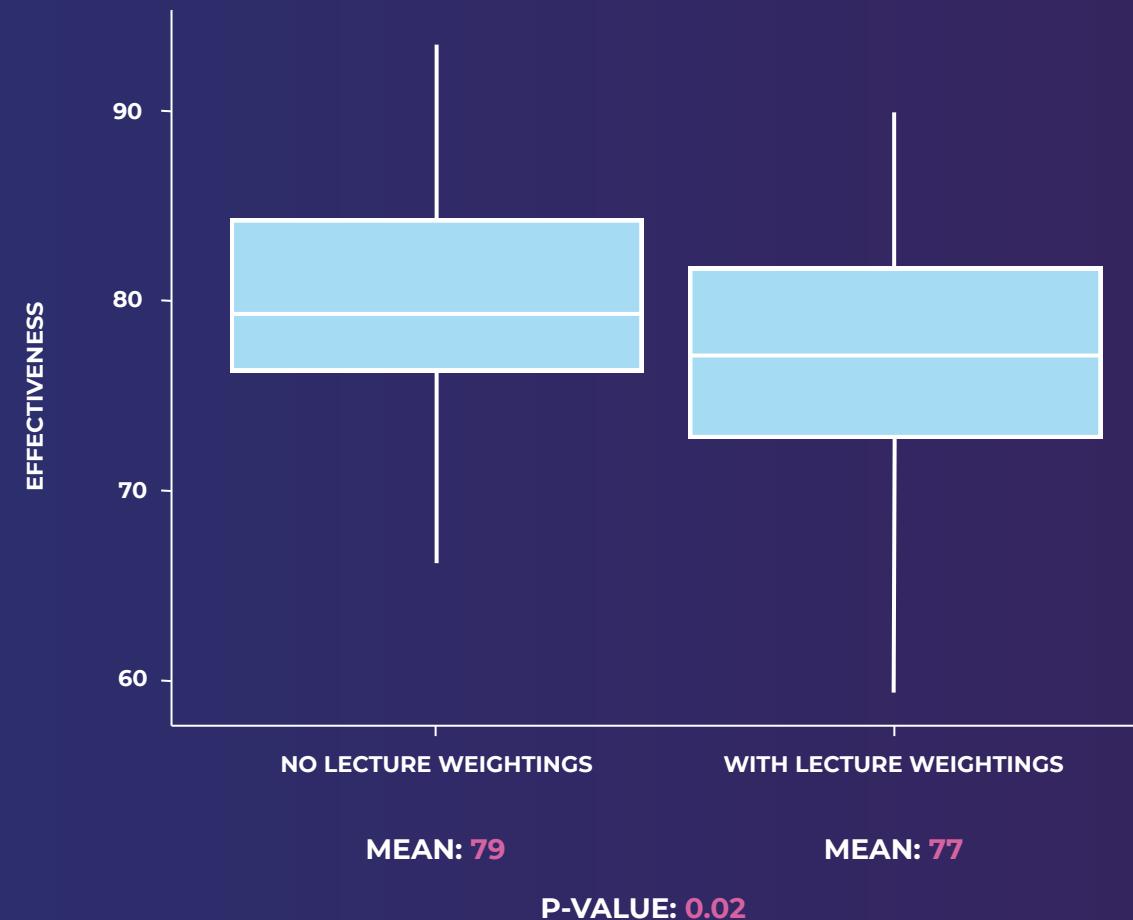


BETA_COEF: -0.46
P-VALUE: 0.044



STATISTICALLY SIGNIFICANT RESULT AT 5% SIGNIFICANCE LEVEL VIA T-TEST

CATEGORICAL ANALYSIS WITH BOXPLOTS



P-VALUE FROM ANOVA TEST

ANALYSIS WITH LINEAR REGRESSION MODEL

DEPENDENT VARIABLE

EFFECTIVENESS

RESPONSE RATE

REG_P_QUOTA

R-SQUARED

0.096

0.164

0.132

TOP 3

INDEPENDENT VARIABLE

Lecture weight	Tutorial weight	Lecture Hours
COEF: -0.07	COEF: -0.08	COEF: -0.11
P-value: 0.15	P-value: 0.17	P-value: 0.24

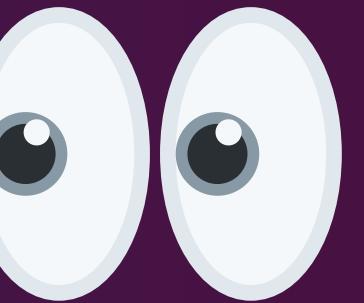
Fieldtrip Hours	1430 starttime	is Online
COEF: 0.96	COEF: 15.88	COEF: -6.71
P-value: 0.015	P-value: 0.071	P-value: 0.18

Lecture weight	Tutorial Hours	1230 starttime
COEF: -0.75	COEF: 3.10	COEF: -20.28
P-value: 0.04	P-value: 0.02	P-value: 0.21

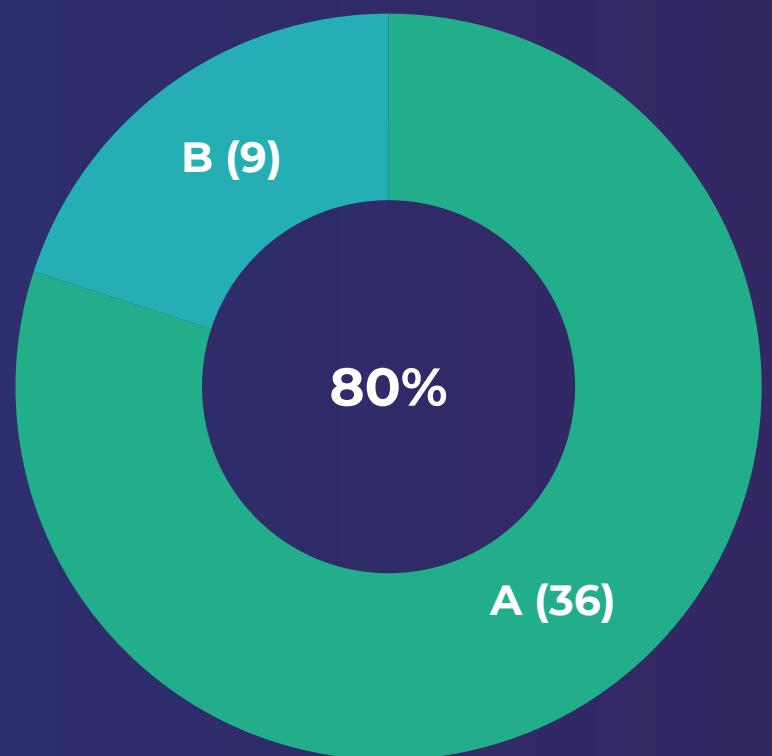
SOME EASTER EGGS



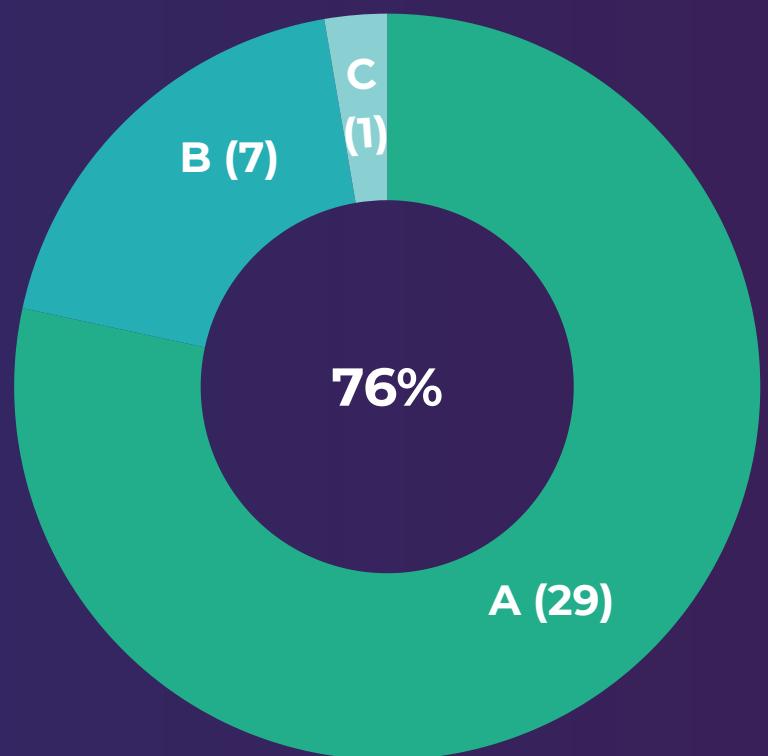
BRO CAN YOU SLIP ME SOME GOOD GRADE CC



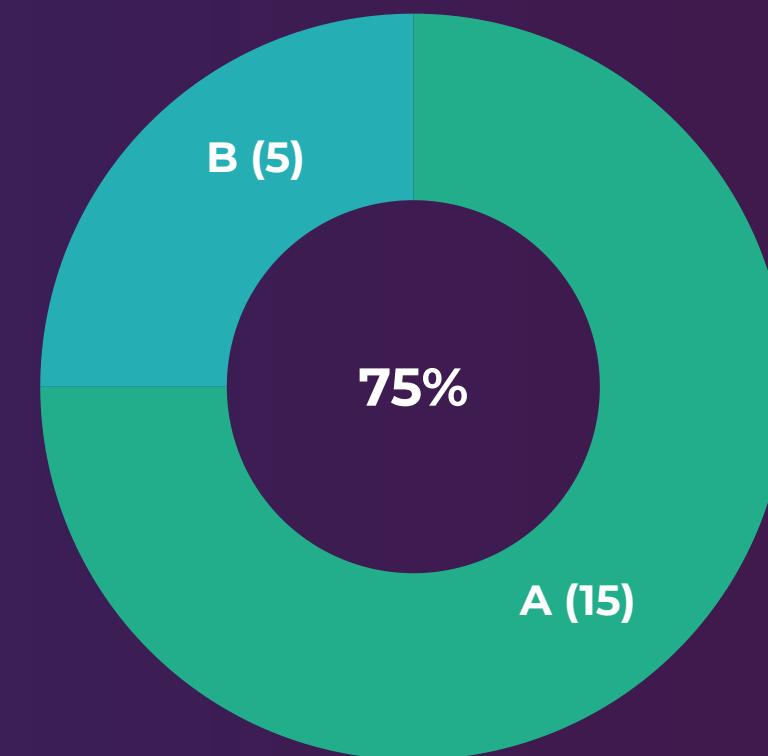
CCCH9051
DIGITIZING CULTURAL HERITAGE
IN GREATER CHINA



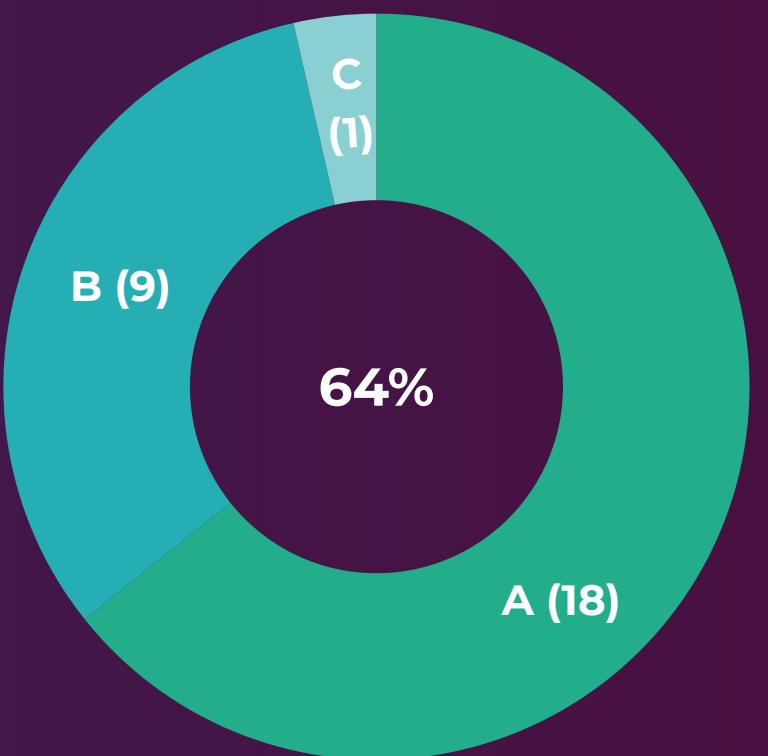
CCHU9034
ARCHITECTURE AND FILM



CCST9056
THE FORCE IS WITH YOU: HOW
THINGS WORK



CCGL9031
ENTREPRENEURSHIP: GLOBAL
AND SOCIAL DEVELOPMENT





I'M A FRESHMAN, I DON'T KNOW WHAT TO CHOOSE! I'LL JUST PICK WHATEVER OTHERS ARE PICKING

	QUOTA	REGISTER	REG_P_QUOTA
CCGL9074 UNLEASHING THE POWER OF BIG DATA IN GLOBAL CITIES	64	122	190%
CCST9072 SMILE ! TEETH AND SOCIETY	64	80	125%
CCCH9018 BUDDHISM AND CHINESE CULTURE	128	136	106%
CCHU9060 GAMES: PLAY, LEARNING AND SOCIETY	64	66	103%

MY FRIENDS REALLY WANNA KNOW...



I WANT TO MEET MORE PEOPLE AND HANG OUT WITH FRIENDS!
**CCCH9031 PROPERTY RIGHTS, BUILT HERITAGE AND
SUSTAINABLE DEVELOPMENT IN HONG KONG**

**20 HOURS
FIELDTRIP**

75%
EXAM/QUIZZES



I AM AN ACADEMIC WEAPON...
**CCST9016 ENERGY: ITS EVOLUTION AND ENVIRONMENTAL
IMPACTS**



I AM NEVER SEEN AT THE CAMPUS
**CCCH9004 IDEAS AND IMAGES OF THE WEST IN LATE IMPERIAL
CHINA (IS NOT FOR YOU)**

50%
PARTICIPATION MARK

WHAT CAN YOU TAKEAWAY

LOWER LECTURE WEIGHTING
TO ATTRACT MORE STUDENTS

FACE TO FACE CLASS FOR
MORE PARTICIPATION

FYC FIND YOUR COURSE

ORGANIZE MORE FIELDTRIPS IF
YOUR COURSE HAS FIELDTRIPS



WHATS NEXT

- Does the lecturer has an impact on Effectiveness?
- Use average SFTL score of all courses taught by a lecturer as a factor
- Sentimental analysis on forum comments
- Collect more data





THANK YOU!