Research on the Status of Online Teaching of Ideological and Political Courses in Colleges and Universities under the Background of "Tobacco Control and Novel Coronavirus Epidemic"——Take a Flight Technology Major from a Civil Aviation University as an Example

Research on the Status of Online Teaching of Ideological and Political Courses in Colleges and Universities under the Background of "Tobacco Control and Novel Coronavirus Epidemic"——Take a Flight Technology Major from a Civil Aviation University as an Example

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Objectives: Due to the impact of Tobacco Control and novel coronavirus pneumonia epidemic, how to ensure the effectiveness of ideological and political courses teaching during epidemic prevention and tobacco control, and use "online teaching" to achieve "non-stop classes" are huge challenges that universities across the country need to face. This research is based on the perspective of the subject-learning subject. Taking the actual situation of ideological and political courses "online teaching" of the flight technology major in a civil aviation university as an example, it is found that the overall situation of "online teaching" is acceptable, but there are still quite a few teaching platforms. Problems such as complexity, teaching methods still need to be improved, excessive after-school burdens, and teaching effectiveness need to be improved. The root cause is the lack of a "student-oriented" teaching philosophy. Therefore, we should streamline the teaching platform and focus on students based on the needs of the curriculum and students cultivation of learning ability, improvement of teaching methods, construction of "diversified" teaching evaluation, reduction of students 'burdens, improvement of teachers' teaching and information technology literacy, and enhancement of teaching effectiveness to help establish a "life-oriented" teaching philosophy.

Key words: tobacco control and novel coronavirus epidemic background; ideological and political courses colleges and universities online teaching; flight technology major; empirical research.

Tob Regul Sci.™ 2021;7(5-1): 2454-2469 DOI: doi.org/10.18001/TRS.7.5.1.14

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RESEARCH BACKGROUND

"Just as the essence of tobacco advertising is to attract consumers," 1 the essence of online teaching is "teaching guidance and assistance". Teaching guidance focuses on what students learn and how to learn, while teaching assistance helps students resolve stuck and blocked points, solve difficult6points, strengthen key points, which means, "taking promotion of students' learning as foundation". In response to the sudden COVID-19 epidemic and Tobacco Control in 2020, the Chinese Ministry of Education has clearly notified the "postponement of the 2020 spring semester", and recommended that all localities use online platforms to achieve "stopping classes without learning suspension". "Online teaching" has undoubtedly become the most important teaching method among national universities during the period of "stopping classes without learning suspension." The current research on online teaching in colleges and universities during the period of "stopping classes without learning suspension" mainly focuses on the "teachers' competence at the micro view, construction of model ecology at the medium view and education reform and development in the context of the epidemic at the macro view"2. The relevant research based on the learning subject (student) perspective of "online teaching" is rare, and the relevant empirical research on the ideological and political courses in colleges and universities is even rarer. The research on the background of COVID-19 epidemic and Tobacco Control is even more rare. Referring to the research methods and ideas of "College Students ' Exposure and Engagement with Tobacco-related Social Media."3This research is based on the essence of "online teaching". From the perspective of learning subject of "online teaching", it takes the practice of "online teaching" of pilot students in a civil aviation flight university in 2020 as an example, explores the current status quo and problems of "online teaching" of ideological and political courses in colleges and universities in domestic colleges and universities through "point-to-surface" manner, proposes suggestions

countermeasures to promote the improvement of teaching effectiveness, provides path guidance for the improvement of "online teaching" quality in domestic colleges and universities in the future, and offers reference and direction for related research.

RESEARCH METHODS

Research object

In the special training mode combining "theoretical education + flight training" for pilot students in China, the students in the "flight training" stage mainly focus on the practical operation of flying skills, learning fewer theoretical courses, and the flow of personnel is distributed in different training bases or flight schools at home and abroad. Hence, this study takes pilot students in the "theoretical education" stage from a domestic university as the research object, adopts random cluster sampling to select 20 teaching classes as research samples, and distributes 800 questionnaires in the form of online surveys. 800 questionnaires were returned, with the questionnaire recovery rate at 100%. 23 invalid questionnaires were deleted. A total of 777 questionnaires were returned effectively, and an effective recovery rate of 97.13%.

Due to the particular training model of the flight technology (it needs to be noted that the flight technology of this school no longer enrolls girls since 2015), different training batches of the students in the "theoretical education" stage mean different educational progress. The "learning stage" of the students cannot be simply divided by "grade". As shown in Table 1, the subjects of this survey are mainly composed of 777 students in the three categories of "Class A", "Class B (including international class and base class)", and "conversion of college students to pilot students". The three types of students have basically close composition ratio.

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Table 1 Composition of Research Object									
	Option	Number	Percentage						
	A class	275	35.39%						
Training batch	B class (including international class and base class)	263	33.85%						
	Conversion of college students to pilot students	239	30.76%						
(Data from Statistics from	m Questionnaire on Online Tea	ching of Ideologica	and Political Courses for Flight University Students)						

Tools and methods

This research mainly adopts the questionnaire survey method. Based on reference to relevant research, by combining expert opinions and actual teaching conditions, we compiled the "Online Teaching Survey Questionnaire for Pilot Students of Civil Aviation Flight University ". It consists of two parts, namely "the basic situation of learning and online teaching status survey", which are mainly based on single-option and multiple-option questions. The content of the "basic situation of learning" includes "student training stage or batch status"; "online teaching status survey" includes "teacher and students attending classes on time, the use of teaching platforms and teaching methods, the teaching interaction, the teaching process organization, the completion of teaching goals and personal satisfaction, the advantages and disadvantages of online teaching, and suggestions for online teaching improvement". After the questionnaire was collected, IBM SPSS Statistics was used to perform statistical analysis and processing on the acquired data, and all data are kept to 2 decimal places.

Data Analysis

As shown in Table 2, the basic teaching order has not been greatly affected during the period of "stopping classes without learning suspension": 99.61% of teachers can still normally "attend the class" by following the timetable pre-set by the Academic Affairs Office, and 99.74% of students can attend classes on time. Moreover, 99.23% of teachers will issue teaching notices before class to ensure the normal progress of online teaching, and 99.87% of teachers will let students sign in in some way to supervise their attendance. However, there are disagreements among students on "whether it is necessary to sign in": 55.86% of the students think it is "necessary to sign in", while 44.14% of students think it is "unnecessary". Further analysis of variance p=0.023>0.05 reveals certain difference among students of "different training batches" regarding "whether it is necessary to sign in". Specifically, the students in "Conversion of college students to pilot students" have the highest degree of agreement with "whether to sign in", followed by "Class A". Class B (including international class and base class)" has the lowest degree of agreement for "signing in or not".

		Table 2						
	Teaching Preparation							
		Class B	Conversion					
Торіс	OptionClass A	(including	of college Total	χ^2	р			
2 opic	option class 11	international	students to	Λ.	P			
		class and base	airmanship					

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			class)	students					
Does the teacher's teaching	Yes	274(99.64)	263(100.00)	237(99.16)	774(99.61)				
time follow the curriculum?	No	1(0.36)	0(0.00)	2(0.84)	3(0.39)	2.285	0.319		
Total		275	263	239	777				
In online teaching, can you	Yes	275(100.00)	262(99.62)	238(99.58)	775(99.74)				
attend class on time?	No	0(0.00)	1(0.38)	1(0.42)	2(0.26)	1.106	0.575		
Total		275	263	239	777				
Does the teacher issue a	Yes	275(100.00)	259(98.48)	237(99.16)	771(99.23)				
teaching notice before class?	No	0(0.00)	4(1.52)	2(0.84)	6(0.77)	4.077	0.130		
Total		275	263	239	777				
Will your class teacher take a	Yes	275(100.00)	262(99.62)	239(100.00)	776(99.87)				
certain way for signing in?	No	0(0.00)	1(0.38)	0(0.00)	1(0.13)	1.957	0.376		
Total		275	263	239	777				
Do you think it is necessary to	Yes	145(52.73)	138(52.47)	151(63.18)	434(55.86)				
sign in for online class?	No	130(47.27)	125(47.53)	88(36.82)	343(44.14)	7.513	0.023*		
Total		275	263	239	777				
Note.									
p<0.05 ** p<0.01									
(Data from Statistics from Quest	ionnaire o	n Online Teachi	ng of Ideological and	Political Courses	s for Flight Universit	y Students)			

As shown in Table 3, almost all common teaching methods of "online teaching" are used by teachers. Through the analysis of "response rate" and "popularity rate", we can find that the most frequently used ones are "live streaming", "online discussion, Q&A", "distribution of teaching resources in advance + self-study + homework assignments", "Video on Demand", among which, the "popularity rate" of "live streaming" has exceeded 90%, making it become the most common

teaching method for students and the most used teaching method for teachers during the "online teaching" period (However, it is worth noting that some teachers may not use a single method in actual teaching, but use multiple teaching methods at the same time). Through the goodness of fit test p=0.000, it is found that although the ratio of each option has certain difference, chi-square test p=0.182>0.05 shows that there is no significant difference in the use of "teaching methods" by

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teachers for students of different "training batches".

		,	Table 3									
	Usage of Teachers' Teaching Methods (Multiple Options)											
Option	Class A (n=275)	Class B (n=263)	Conversion of college students to pilot students(n=239)	Response rate	Popularity rate (n=777)	Summary (n=777)						
Live streaming	274(99.64)	261(99.24)	239(100.00)	32.01%	99.61%	774(99.61)						
Video on demand	151(54.91)	151(57.41)	122(51.05)	17.54%	54.57%	424(54.57)						
Online discussion and Q&A	212(77.09)	199(75.67)	176(73.64)	24.28%	75.55%	587(75.55)						
Distribution Of teaching resources in												
advance + self-study	188(68.36)	184(69.96)	154(64.44)	21.75%	67.70%	526(67.70)						
+ homework assignments	40(15.05)	49(19.25)	17/7 11)	4.420/	12.770/	107(12.77)						
Others	42(15.27)	48(18.25)	17(7.11)	4.43%	13.77%	107(13.77)						
Note												
Chi-square test: χ ² =11.3	58 p=0.182, goodne	ss of fit test: $\chi^2 = 500.83$	0 p=0.000 with perce	entages in pa	rentheses							
(Data from Statistics fro	m Questionnaire on	Online Teaching of Id	eological and Politica	d Courses fo	r Flight Univer	sity Students)						

As shown in Table 4, 260 students are "very satisfied", accounting for 33.46%, and 252 students are "satisfied", accounting for 32.43%. It can be seen that more than half of the students are satisfied with the teaching methods used by teachers, but there are still nearly more than one third of the students who are "unsatisfied" or "unclear"; through the chi-square test p=0.006<0.01, it can be found that students of different "training batches" have significant difference in satisfaction with the use of "teacher teaching methods". Specifically, 42.18% of

"Class A" choose "very satisfied", which is significantly higher than the average level of 33.46%, and only 38.49% students "Conversion of college students to pilot students" choose "satisfied", which is significantly higher than the average level of 32.43%, while the percentages of "Class B (including international class and base class)" who choose "very satisfied" or "satisfied" are all lower than the average. In overall, their satisfaction towards "use of teacher teaching methods" is also the lowest.

Studenta! Se	rtiafaction wi	Table		oda Uaad by	Tooghama		
Topic Students Sa	Atisfaction wi	Class A	Class B (including international class and base class)	Conversion o college students to pilot students	f total	χ^2	p
Are you satisfied with the current	Very satisfied	116(42.18)	80(30.42)	64(26.78)	260(33.46)	21.540	0.006*
teaching methods used by teachers	Satisfied	78(28.36)	82(31.18)	92(38.49)	252(32.43)	21.340	0.000

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		Tab	ole 4							
Studen	Students' Satisfaction with the Teaching Methods Used by Teachers									
Торіс	Option	Class A	Class B (including international class and base class)	Conversion college students to pilot student	total	χ²	p			
in online teaching?	Unclear Dissatisfied Very dissatisfie	34(12.36) 45(16.36) and 2(0.73)	44(16.73) 56(21.29) 1(0.38)	29(12.13) 54(22.59) 0(0.00)	107(13.77) 155(19.95) 3(0.39)					
		275	263	239						

As shown in Table 5, through the analysis of "response rate" and "popularity rate", it can be found that "participate in discussions, Q&A, guide me into positive thinking" and "solve the problems I raised in time" are the most important problems in the teaching methods currently used by teachers. Only 34.23% (response rate 14.81%) of students think that teachers "cannot supervise or monitor my learning status". It can be seen that "real-time Q&A, enlightening induction" is students' most urgent need for the teachers'

online teaching process, which is also an important factor that affects students' satisfaction with the use of teachers' teaching methods. Through the goodness of fit test p=0.000, it is found that although there are differences between the selection ratios of the options, the chi-square test $p=0.87\ >0.05$ shows that there is no significant difference among of students of different "training batches" regarding the opinion that "the teaching methods used by teachers have problems".

8		or the tea	Table 5	<u> </u>							
Problems in the Teaching Methods Used by Teachers According to Students' Opinion (Multiple Option)											
Option	Class A (n=275)	Class B (n=263)	Conversion of college students to pilot students (n=239)	Response rate	Popularity rate (n=777)	Summary (n=777)					
Cannot solve the problem I raised in time	199(72.36)	183(69.58)	162(67.78)	30.29%	70.01%	544(70.01)					
Cannot report the job status in time	145(52.73)	145(55.13)	114(47.70)	22.49%	51.99%	404(51.99)					
can't participate in discussions and Q&A, and cannot guide me into	203(73.82)	193(73.38)	186(77.82)	32.41%	74.90%	582(74.90)					
positive thinking. Can't supervise or monitor my learning status	101(36.73)	89(33.84)	76(31.80)	14.81%	34.23%	266(34.23)					
Note. Chi-square test: $\chi^2=2.489$ p=0.	870, goodness	-of-fit test: χ²=	138.592 p=0.000	with percent	tages in parentl	heses					

(Data from Statistics from Questionnaire on Online Teaching of Ideological and Political Courses for Flight University Students)

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As shown in Table 6, 443 students choose "very willing" to interact with teachers, accounting for 57.01%, and 308 students choose "willing" to interact with teachers, accounting for 39.64%. More than 90% of students are willing to actively

communicate and interact with teachers. Through the chi-square test p=0.325>0.05, it can be found that there is no significant difference in the willingness of students from different "training batches" towards "teaching interaction".

Wille than 90% of studen	to are willing to		able 6				
Stud	lents' Willingn			Teaching Int	teraction		
Торіс	Option	Class A	Class B (including international class and base class)	Conversion of college studen to pilot students		χ ² □	р□
	Very willing	173(62.91)	144(54.75)	126(52.72)	443(57.01)		
In online teaching, are you	Willing	92(33.45)	110(41.83)	106(44.35)	308(39.64)		0.325
willing to actively communicate	Not sure	7(2.55)	6(2.28)	5(2.09)	18(2.32)	0.206	
and interact with teachers?	Unwilling	2(0.73)	3(1.14)	2(0.84)	7(0.90)	9.206	
	Quite unwilling	1(0.36)	0(0.00)	0(0.00)	1(0.13)		
Total Note. p<0.05 ** p<0.01, with percentage	es in parentheses	275	263	239	777		

As shown in Table 7, through the analysis of "response rate" and "popularity rate", it can be found that "teaching interaction is linked to performance", "teaching content is attractive", "interested in classroom content", and "teacher's guidance and inspiration are effective" are the factors that students think will most affect the participation enthusiasm for in teaching interaction, which shows that most students do not actively participate in teaching interaction simply because of the "desire for better grades" or "attraction by teachers and teaching content",

but "both play a role" and there are even more factors. Through the goodness of fit test p=0.000, it is found that there is a difference between the selection ratios of each option, but it can be found through the chi-square test p=0.928>0.05 that there is no significant difference in the selection of "factors affecting the enthusiasm for participation in teaching interaction" among students of different "training batches".

Factors A	Affecting Students'	Enthusiasm fo	Table 7 or Participati	ng in Teach	ing Interacti	on (Multiple Option)
Option	Class A (n=275)	Class B (including international class and base class) (n=263)	Conversion of college students to pilot students (n=239)	Response rate	Popularity rate (n=777)	Summary (n=777)

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Teaching interaction is linked to performance	224(81.45)	199(75.67)	163(68.20)	25.49%	75.42%	585(75.42)
Teacher's guidance and inspiration are effective	186(67.64)	172(65.40)	166(69.46)	22.79%	67.44%	524(67.44)
The teaching content is attractive	206(74.91)	192(73.00)	172(71.97)	24.79%	73.36%	570(73.36)
Interested in classroom content	213(77.45)	189(71.86)	157(65.69)	24.31%	71.94%	559(71.94)
Other Note. Chi-square test: χ²=3.1	21(7.64) 106 p=0.928, good	22(8.37) lness-of-fit test: $\chi^2=4$	17(7.11) 39.045 p=0.000 w	2.61% ith percentages	7.72% in parentheses	60(7.72)
(Data from Statistics f	rom Questionnair	e on Online Teaching	of Ideological and	d Political Cour	ses for Flight Un	iversity Students)

As shown in Table 8, regarding "overall evaluation of online learning during the epidemic", 28.31% of the students are "very satisfied" and 38.61% are "satisfied". Overall, more than 60% of the students are satisfied with online teaching during the epidemic. However, 32.28% of students still think that they are "just so so" or "unsatisfied". Regarding "whether the teacher has clear teaching goals and requirements in teaching", more than 95% of students say goals and requirements are "very clear" or "clear". It can be seen that the transition from "traditional teaching" to "online teaching" does not affect teachers' implementation of teaching goals and requirements. Regarding "teacher's organization of the online teaching process", 74.26% of students believe that "the organization is reasonable, with appropriate leniency and strictness", 24.71% of the students think that "the organization is relatively reasonable and there are requirements for students". Most of the students recognize the teaching organization in the teacher's "online teaching", which also suggests that the change of teaching mode will also

prompt teachers to adjust their own teaching organization to adapt to the new requirements. As for "whether it is necessary to teach the course again after returning to school", only 18.02% of the students think "no need" and 69.88% of the students think "key and difficult points need to be explained". Seen from teaching form, current "online teaching" has basically been able to meet the needs of students, but in terms of the actual teaching effect, the current "online teaching" still needs to be further strengthened.

mat t	ne change of	teaching inc	ouc will	a150			
				Table 8			
		Stud	lents' Eva	aluation of Onli	ne Teaching		
Topic		Option	Class A	Class B (including international class and base class)	Conversion of college students to pilot students	χ²□	р□

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example							
	very satisfied	89(32.36)	57(21.67)	74(30.96)	220(28.31)		
Your overall evaluation of	satisfied	97(35.27)	104(39.54)	99(41.42)	300(38.61)		
online learning during the	General	69(25.09)	87(33.08)	51(21.34)	207(26.64)	15.929	0.043*
epidemic	Dissatisfied	19(6.91)	14(5.32)	15(6.28)	48(6.18)	13.929	0.045**
	Very	, ,					
	dissatisfied	1(0.36)	1(0.38)	0(0.00)	2(0.26)		
Гotal	G155 CC1511 CG	275	263	239	777		
	Very clear	173(62.91)	135(51.33)	135(56.49)	443(57.01)		
Do you think the teachers have	Clear	94(34.18)	115(43.73)	100(41.84)	309(39.77)		
clear teaching goals and requirements in teaching?	Not sure	5(1.82)	11(4.18)	4(1.67)	20(2.57)	13.086	0.042*
equirements in teaching.	Unclear	3(1.09)	2(0.76)	0(0.00)	5(0.64)		
Total		275	263	239	777		
Your evaluation about the teacher's organization of the online teaching process	organization is reasonable, with a degree of leniency and strictness organization is relatively reasonable, with requirements for students There is certain organization, the requirements are relaxed		192(73.00) 67(25.48) 4(1.52) 263	173(72.38) 64(26.78) 2(0.84)	577(74.26) 192(24.71) 8(1.03)	2.600	0.627
1 otai	Need	32(11.64)	263 30(11.41)	239 17(7.11)	777 79(10.17)		
	No need	39(14.18)	42(15.97)	59(24.69)	140(18.02)		
Do you think it is necessary for							
teachers to teach online courses		197(71.64)	186(70.72)	160(66.95)	543(69.88)	13.478	0.036*
again after you return to school	rneed to be explained	•		•			
	It doesn't matter	7(2.55)	5(1.90)	3(1.26)	15(1.93)		
Fotal		275	263	239	777		
Note.							
p<0.05 ** p<0.01, with percentag		m 1. c	1	10	T11 1 . T7 1	•. •	
Data from Statistics from Questic	onnaire on Online	reaching of Id	eological and Pol	itical Courses f	or Flight Unive	rsity Stuc	ients)

Through the chi-square test, it can be found that different "training batches" have an effect on students' option in "overall evaluation of online learning during the epidemic period", "whether the teacher has clear teaching goals and requirements in teaching", and "whether it is necessary to repeat the course after returning to school." There are big differences between different training batches: the difference in percentage comparison shows that 33.08% of "Class B (including international class and base class)" choose "general" regarding "overall evaluation of online learning during the epidemic", which is significantly higher than the average

level of 26.64%. From the perspective of the ratio of each option, "Class B (including international class and base class)" has the lowest overall evaluation against "online learning during the epidemic". Regarding "whether the teacher has clear teaching goals and requirements in teaching", 62.91% of the "Class A" chooses "very clear", which is significantly higher than the average level of 57.01%. It can be seen that "Class A" has slightly higher recognition towards teachers' teaching goals and requirements than students of other training batches. Regarding "whether it is necessary to repeat the course again after returning to school", 24.69% of students "in Conversion of college students to pilot students"

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choose "not necessary", which is significantly higher than the average level of 18.02%. It can be seen that students "in Conversion of college students to pilot students" have slightly higher internalization of the teaching content during the "online teaching" period than students of other training batches.

As shown in Table 9, only 13% of students think that "online teaching is superior to traditional teaching", 30.50% of students think that "online teaching is as effective as traditional teaching", and 36.29% of students think that

"online teaching is inferior to traditional teaching". It can be seen that although online teaching can meet the learning needs of students to a certain extent during the period of "stopping classes without learning suspension", but its actual teaching effect still has a gap from traditional teaching. Through the chi-square test p=0.102 >0.05, it can be seen that there is no significant difference in the selection of "comparison between online teaching and traditional teaching" among students of different "training batches"

teaching, and s		T	able 9				
Comparis	son of Teaching Effe	ct between	Online Tea	ching and T	Traditional '	Teachin	g
	Option	Class A	Class B				
Горіс			(including	Conversion of college students Total		χ ²□	p□
			international				
			class and base	base to pilot students			
			class)				
How do you think learning effect of onling teaching compared to traditional teaching	Better than traditional teaching effect	35(12.73)	36(13.69)	30(12.55)	101(13.00)	10.601	0.102
	As offoctive as traditional	86(31.27)	78(29.66)	73(30.54)	237(30.50)		
	Inferior to traditional teaching	89(32.36)	91(34.60)	102(42.68)	282(36.29)		
	Hard to say	65(23.64)	58(22.05)	34(14.23)	157(20.21)		
Гotal		275	263	239	777		
Note.							
p<0.05 ** p<0.01, with	percentages in parentheses						
Data from Statistics from	n Questionnaire on Online T	eaching of Ide	ological and Polit	ical Courses for	Flight Universi	ty Students)

As shown in Table 10, through the analysis of "response rate" and "popularity rate", it can be found that "overburden after class", "the influence of internet lag and hardware equipment on the teaching effect", "high self-learning ability requirement", " "it takes a lot of time" are the main problems of online teaching caused to students' learning compared with traditional teaching. Further analysis of the "popularity rate" reveals that the popularity rate of "overburden after class" is 58.04%, which has exceeded 50%, becoming a common problem faced by more than half of students in online teaching. Through goodness-of-fit test p=0.000 and chi-square test

p=0.002<0.01, it can be found that students of different "training batches" have different choices in "computer, phones and other hardware operational level", "influence of internet lag, hardware equipment on teaching effects", and "overburden after class". For the specific manifestation, a higher proportion of "Class B (including international class and base class" students choose "computer, phones and other hardware operational level"; a higher proportion of students in "Conversion of college students to pilot students" choose "influence of internet lag and hardware equipment on the teaching effect"; a higher proportion of "Class A" students choose "overburden after class"

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Table 10 Compared with Traditional Teaching, Learning Difficulties Caused by Online Teaching Among									
Students (Multiple Option)									
Option	Class A (n=275)	Class B (including international class and base class) (n=263)	Conversion of college students to pilot students (n=239)	Response rate	Popularity rate (n=777)	Summary (n=777)			
High self-learning ability requirements	112(40.73)	100(38.02)	94(39.33)	19.55%	39.38%	306(39.38)			
It takes a lot of time	104(37.82)	100(38.02)	75(31.38)	17.83%	35.91%	279(35.91)			
Requirements for the operating level of									
hardware such as computers and mobile	50(18.18)	63(23.95)	28(11.72)	9.01%	18.15%	141(18.15)			
phones									
The influence of internet lag and hardware equipment on teaching effect	121(44.00)	121(46.01)	146(61.09)	24.79%	49.94%	388(49.94)			
Overburden after class	174(63.27)	155(58.94)	122(51.05)	28.82%	58.04%	451(58.04)			
Note.									
Chi-square test: χ^2 =24.152 p=0.002, goodness (Data from Statistics from Questionnaire on Or	,,		1 0			tudents)			

As shown in Table 11, through the analysis of "response rate" and "popularity rate", it can be found that "time and place are not restricted", "resources are more abundant and can be used directly", and "can be reviewed and listened repeatedly" are the greatest advantages of online teaching compared with traditional teaching in students' opinion. Through the goodness of fit

test p=0.000, it is found that although there is a difference between the selection ratios of each option, the chi-square test p=0.704>0.05 shows that students of different "cultivation batches" have no significant difference in choice of "advantages of online teaching compared with traditional teaching"

Advantages of Online Teaching Co		able 11	anal Taaah	ing Mod	o (Multin	lo Ontion)
Option	Class A (n=275)	Class B (including international class and base class) (n=263)	Conversion of college students to pilot student	Response	Popularity rate (n=777	Summary
Time is free and flexible, and the time and place fo						
learning can be arranged independently without constraint	187(68.00)	163(61.98)	175(73.22)	24.95%	67.57%	525(67.57)
Oriented objects are more extensive, can communicate with more people	119(43.27)	96(36.50)	113(47.28)	15.59%	42.21%	328(42.21)
The resources are more abundant and can be used lirectly	184(66.91)	162(61.60)	155(64.85)	23.81%	64.48%	501(64.48)
When one encounters unclear knowledge points, one can look back and listen repeatedly.	156(56.73)	154(58.56)	124(51.88)	20.63%	55.86%	434(55.86)
Feachers and students can have interactive Q&A n real time	118(42.91)	99(37.64)	99(41.42)	15.02%	40.67%	316(40.67)
Note.						
Chi-square test: χ ² =5.493 p=0.704, goodness-of-fit tes	t: χ²=88.067 p	=0.000 with per-	centages in par	entheses		

As shown in Table 12, by analyzing the "response rate" and "popularity rate", it can be found that "too heavy schoolwork burden", "the teaching platform used is too complicated",

"teaching methods such as live streaming and watching videos are not effective" are the most important problems in online teaching according to the students. Through the goodness of fit test p=0.000, it is found that although there is a

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difference between the selection ratios of each option, the chi-square test p=0.42>0.05 reveals that students of different "training batches" have

no significant difference in the views towards "current problems in online teaching".

		Table 12				
Problems in Cu	ırrent Onl	ine Teachin	ig in Stude	nts' Opi	nion	
Option	Class A (n=275)	Class B (including international class and base class) (n=263)	-	Response rate	Popularity rate (n=777	Summary (n=777)
Overburden after class	148(53.82)	153(58.17)	132(55.23)	26.07%	55.73%	433(55.73)
Teaching methods such as live streaming and watching videos are not effective	133(48.36)	131(49.81)	138(57.74)	24.20%	51.74%	328(51.74)
Too little communication and interaction between teachers and students	53(19.27)	63(23.95)	76(31.80)	11.56%	24.71%	192(24.71)
Lack of restraint and insufficient self-control	71(25.82)	76(28.90)	68(28.45)	12.94%	27.67%	215(27.67)
The teaching platform used is too complicated	151(54.91)	141(53.61)	127(53.14)	25.23%	53.93%	419(53.93)
Note.						
Chi-square test: χ^2 =8.142 p=0.420, goodness of fit	test: $\chi^2 = 168.44$	19 p=0.000 with	percentages in	parentheses	S	
(Data from Statistics from Questionnaire on Online	Teaching of l	deological and I	Political Course	es for Flight	University S	tudents)

As shown in Table 13, by analyzing the "response rate" and "popularity rate", it can be found that "reduce the burden after class", "streamline online teaching platform", "enrich curriculum resources", and "improve teaching methods such as live streaming and recorded broadcast" are the improvement suggestions mentioned the most by the students for online teaching. It can be seen that "reduce burden", "improve teaching methods" and "enrich

teaching resources" are the most direct expectations of students for the improvement of online teaching quality. Through goodness of fit test p=0.000, it is found that there is a difference between the selection ratios of options, but the chi-square test p=0.151>0.05 reveals that students of different "training batches" have no significant difference in terms of "suggestions for improvement of online teaching"

Table 13 Students' Suggestions for Improvement of Online Teaching								
Option	Class A (n=275)	Class B (including international class and base class) (n=263)	Conversion of college students to	Response		Summary (n=777)		
Enrich curriculum resources	148(53.82)	140(53.23)	121(50.63)	16.88%	52.64%	409(52.64)		
Strengthen real-time teaching interaction	103(37.45)	98(37.26)	89(37.24)	11.97%	37.32%	290(37.32)		
Strengthen classroom management	77(28.00)	63(23.95)	50(20.92)	7.84%	24.45%	190(24.45)		
mprove teaching methods such as live	129(46.91)	114(43.35)	135(56.49)	15.60%	48.65%	378(48.65)		
treaming and recorded broadcast								
8	179(65.09)	174(66.16)	121(50.63)	19.56%	61.00%	474(61.00)		
streaming and recorded broadcast Reduce after-school burden Shorten the course time	179(65.09) 93(33.82)	174(66.16) 93(35.36)	121(50.63) 60(25.10)	19.56% 10.15%	61.00% 31.66%	474(61.00) 246(31.66)		

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RESULTS

Teaching methods still need to be improved

"The advantages and limitations of online teaching make learning-based rather than teaching-based model more suitable."4 Online teaching is not a direct online copy of the traditional classroom teaching model, nor does it blindly chase "fashion" and pursue new, novel teaching methods. Instead, we should choose a suitable teaching method based on "the specific requirements of the curriculum and the development of students' learning ability"⁵. Judging from the current teaching methods used by teachers, it can basically meet the needs of students in terms of form, but the specific organization of the teaching process and the specific presentation of the teaching content still face problems, such as "cannot participate in discussions, Q&A, and guide students into positive thinking", "cannot solve the problems I raised in time", "live streaming, watching videos, etc. have poor effect", which affects the effectiveness of teaching and neglects the cultivation of students' learning ability. For its reason, on the one hand, it may be that the teachers' teaching philosophy has not yet changed, and the "student-oriented" teaching philosophy has not yet been established, so the traditional "teaching-based approach" is still implemented in the teaching design; on the other hand, it may be that the teacher's teaching and information technology literacy needs to be improved. "The lack of proficiency in the use of emerging teaching methods and teaching platforms has affected the concrete presentation of teaching."6

Overburden after class

The essence of "online teaching" is to "guide and assist learning", which takes promoting students' learning enthusiasm and enhancing their learning ability as the primary purpose. It is not a "quantified activity" aimed to complete a certain teaching task. Excessive "traced management" makes us pay too much attention to the "external form" in teaching and ignore the "substantial content". In terms of the current survey, "overburden after class" has become the biggest problem encountered by students in "online

teaching", and "burden reduction" has become the common aspiration of students. On the one hand, the reason for this may be that teachers have not yet fully adapted to the various changes brought about by the transformation of teaching methods, resulting in the failure to achieve the desired teaching effect in actual teaching, so additional "tasks" after class are needed to strengthen the teaching effectiveness. On the other hand, it seems that the teaching management department has not yet adapted to the changes in the teaching management model brought about by "online teaching", which is still accustomed to the traditional "quantified" way in weighing of teaching.

Teaching effectiveness needs to be improved

What needs to be clear is that seen from the current academic research results and practice, "online teaching" is only a countermeasure to meet the learning needs of students in a special period, which cannot completely replace traditional teaching. Seen from the previous surveys such as "comparison of online teaching and traditional teaching effects" and "whether it is necessary to repeat the courses again after returning to school", there is still a gap between the "online teaching" and traditional teaching in actual teaching effects. How to effectively improve the teaching effectiveness in the next "online teaching" and complete the smooth connection between "online" and "offline" is a practical problem that needs to be solved in the future.

DISCUSSION AND SUGGESTIONS

Pay attention to the cultivation of students' earning ability and improve teaching methods

Teaching method is not only the presentation carrier of teaching content, but also the direct representation of teaching practice. "A good and reasonable teaching method should not only enable the transformation of teaching content from the display of 'objective experience' to the subjective experience of the learning subject, but also promote the continuous improvement in learning ability of the learning subject." Therefore, focusing on the cultivation of students' learning ability, we can make full use of the advantages of "online teaching" to "avoid the 'teaching-oriented' online "cramming education", take the actual ability of teachers and the actual needs of course teaching as the basis, and

Tob Regul Sci.TM 2021;7(5-1): 2454-2469

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select an appropriate teaching methods for the courses of different categories. It's like tobacco advertising needs to meet expectations of different consumers. For example, for public basic courses, we can "excellent course on-demand choose the broadcast + self-study + online O&A" mode. The "online Q&A" process focuses on "solving students' doubts and stimulating learning motivation". For professional basic courses, we can choose the mode of "distributing teaching resources in advance + live streaming", and pay attention to the inspiration of students' learning initiative and enthusiasm in the process of "live streaming". For special types such "ideological and political courses" and "physical education", according to actual needs, we can choose different teaching methods such as "excellent course on-demand broadcast+ live streaming". "live streaming + self-study". However, no matter which teaching method we choose, we should stick to "study-oriented approach" instead of "direct copy of traditional classrooms".

Construct "diversified" teaching evaluation to reduce the burden on students

The teaching goal of "online teaching" is not simply "subject-based or knowledge-based" to master knowledge or skill, but should be student-based and focus on the development of students"⁹. It should not measure the learning status of students and test the teaching status of teachers through "explicit forms" of after-school homework, quantitative assessment, etc., which will continually "increase burden" on students. Like college students ' self-willingness to tobacco control. We should pay attention to the developmental level of students' learning and the actual "sense of gain", and construct "diversified" teaching evaluation models to reduce the burden on students. For example, the educational administration department should change the concept, change the teaching management model. While relying on the corresponding online learning (teaching) platform to detect and analyze the "quantified" data such as "teaching duration", "uploaded teaching content", and "sign-in status" through technical means, we can also learn about

teachers' teaching status and students' learning status through multiple channels such as "online inquiry". and "real-time lectures". "online assessments". In addition to consolidating the content of classroom teaching by assignment, there are many ways for teachers to test and evaluate students' learning. For example, in the "live streaming" process, teachers directly conduct one-to-one or one-to-many online tests, divide the courses with previously distributed teaching resources into different units or sections and distribute resources to different study groups. After preparation by the corresponding study groups, "live teaching" can be carried out, so that the mutual evaluation and mutual testing of students can be carried out during the teaching process.

Improve teachers' teaching and information technology literacy, and enhance teaching effectiveness

For teachers as one of the two subjects in the teaching relationship, their own literacy, especially "teaching and information technology literacy, is not only an important component of the development of TPACK for college teachers" but has the most direct impact on the effectiveness of "online teaching". Just as you need to focus on college students 'self-control of tobacco control. We should constantly strengthen teachers' teaching information technology literacy. For example, colleges and universities can provide teachers with "online teaching overview", "teaching platform use", "curriculum resource development" and other related trainings on "online teaching" through "layered classification" to help teachers more quickly adapt to changes in "online teaching", such as "learning relationship", environment". "teacher-student "organizational management", "teaching structure", etc. Teachers from the same school and the same teaching and research section can form a teaching community according to teaching needs to participate in teaching design, teaching seminars, experience sharing, and teachers mutual evaluation, etc. "It is not necessary for everyone to become an Anchor, but we can carry out division of labor, results sharing based on the teachers' respective advantages, and strengthen the scientificity of teaching design and the operability of teaching implementation through team strength." Teachers can use MOOC, SPOC, national, provincial and

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municipal quality course resources, etc. to enhance respective subject knowledge and teaching knowledge, transfer objective "subject knowledge" to students' subjective "personal experience", transfer respective "direct experience" in traditional teaching to the new context of "online teaching", etc.

Study Limitations

In fact, there are some limitations in our research need to be made clear to readers. First, the research object has certain limitation, the representativeness of "college students" is not strong enough to represent the overall situation and individual differences of different types of colleges, different majors and female college students. It is not comprehensive. Additionally, the depth of relevant research is not enough .For example, "college students' willingness to use online teaching platform" has many specific influencing factors, and there is no in-depth investigation and exploration. For the evaluation of the use of online teaching platform, it is not only necessary to consider the students, but also the perspective and needs of teachers.

Implications for Practice and Suggestions for Future Research

In our opinion, we suggest future research should focus on the following two aspects: First is the "college students for online teaching participation factors" research, to find out what factors affect students ' participation, in particular the specific impact of tobacco control and COVID-19 epidemic background on teaching effectiveness. Just as the specific impact of tobacco control advertising evaluation on consumer evaluation. Second is the research "online teaching evaluation" "influencing factors of online teaching evaluation", revealing the evaluation methods and influencing factors that are truly suitable for "online teaching". These are the problems that need to be solved and the direction of efforts in future research.

Acknowledgement

This research was supported by the Scientific Research Project General Project of Civil Aviatio n Flight University Of China: Research on the Professional Development of Ideological Theory Teachers in Civil Aviation Universities—Based on the Perspective Professional Growth (Project Number: J2020-010) and Sichuan Province 2021 Social Science Planning Ideological and Political Theory Course Research Project: Research on the In - service Training System of Ideological and Political Theory Teachers in Colleges and Universities of Sichuan Province (Project Number:SC21SZ021)and Sichuan Multicultural Research Center 2021 Project: Study on the Cultivation of Socialist Core Values of Post -00 College Students under the Multicultural Background (Project Number:DYWH2128). The authors declare no conflict of interest in the authorship or publication of this work.

Author Declaration

This research is not funded by any organization related to tobacco production.

References

- Moran, Meghan Bridgid; Pearson, Jennifer L. Real. Simple. Deadly. A Pilot Test of Consumer Harm Perceptions in Response to Natural American Spirit Advertising. Tobacco Regulatory Science. 2019; (07):30-368.
- 2. Yang Jinyong, et al. Online Teaching Practice and Experience during Epidemic. *China Educational Technology*.2020; (04):29-41.
- 3. Clendennen, Stephanie L.et al. College Students' Exposure and Engagement with Tobacco-related Social Media. *Tobacco Regulatory Science*. 2020; (01):38-53.
- 4. PITUCH K A, LEE Y. The influence of system characteristics on e-learning use. *Computers &Education*, 2006; 47(2): 222-244.
- 5. SONG H, WU J, ZHI T. Online teaching for elementary and secondary schools during COVID-19 prevention and control. *ECNU Review of Education*, 2020; 3(4): 745-754.
- 6. Hew, K. F., & Cheung, W. S. Students' and Instructors' Use of Massive Open Online Courses (MOOCs): Motivations and Challenges. *Educational Research Review*, 2014; 12:45-58.
- 7. Najafi, H., Rolheiser, C., & Harrison, L. et al. University of Toronto Instructors' Experiences with Developing MOOCs. *International Review of Research in Open and Distributed Learning*, 2015; 16(3):233-255.
- 8. Zhu Zhiting, et al. Policy Interpretation, Key Issues and Countermeasures of Classes Suspended but Learning Continues. *China Educational Technology*.2020; (04):1-7
- Zhu Dequan Yang Lei. The Development of Instructional Theory over the Past Seven Decades in China: Practice

Research on the Status of Online Teaching of Ideological and Political Courses in Colleges and Universities under the Background of "Tobacco Control and Novel Coronavirus Epidemic"——Take a Flight Technology Major from a Civil Aviation University as an Example

- Models and Logical Directions. *Educational Research*.2019; 40(09):14-28.
- 10. Koehler, M. J., & Mishra, P. What Happens When Teachers Design Educational Technology? The

Development of Technological Pedagogical Content Knowledge. *Journal of Educational Computing Research*, 2005:32(2):131-152.