Time	Content	Lecturer	Classroom	Meeting ID
August 8 8:00-9:35	Introduction, course requirements and evaluation approach	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 9 8:00-9:35	Ch1 Tire characteristics, terminology and dynamics	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 10 14:00-15:35	Ch1 Tire parameters, modeling methods, linear model and Magic Formula tire model	N. ZHANG	J1-205	#VooV Meeting: 591-2482-8952
August 11 8:00-9:35	Ch2 Wheel characteristics, dynamics and modeling, fundamentals of braking	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575

August 15 8:00-9:35	Ch3 Vertical dynamics, quarter car model	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 16 8:00-9:35	Ch3 Vertical dynamics, comfort and fundamentals of NVH	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 17 14:00-15:35	Ch4 Vertical dynamics, suspension characteristics and modeling of suspension components	N. ZHANG	J1-205	#VooV Meeting: 591-2482-8952
August 18 8:00-9:35	Ch5 Vertical dynamics, pitch motion, support angle for traction and braking	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 22 8:00-9:35	Ch5 Vertical dynamics, roll motion, stabilizer anti-roll bar and wheel load transfer	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 23 8:00-9:35	Ch6 Lateral dynamics, linearized single-track model	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 24 14:00-15:35	Ch6 Lateral dynamics, understeer gradient, handling and stability related to self-steering characteristics	N. ZHANG	J1-205	#VooV Meeting: 591-2482-8952
August 25 8:00-9:35	Ch7 Longitudinal dynamics, engine characteristics, fuel consumption	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 29 8:00-9:35	Ch7 Longitudinal dynamics, modeling of drive train	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 30 8:00-9:35	Ch8 Aerodynamics, resistance forces and modeling	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575
August 31 14:00-15:35	Final review, fundamentals of articulated vehicle dynamics	N. ZHANG	J1-205	#VooV Meeting: 591-2482-8952
September 1 8:00-9:35	Final project	N. ZHANG	J1-205	#VooV Meeting: 724-5127-7575

Ning Zhang

2015

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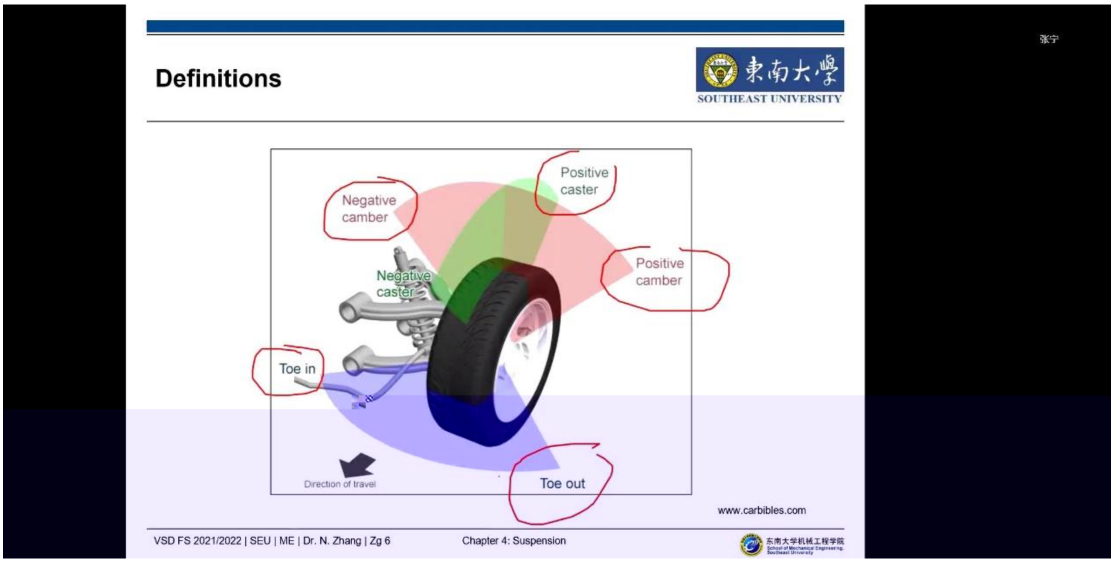
张宁



Definitions

Negative camber
Positive caster
Positive camber
Negative caster
Toe in
Direction of travel
Toe out

www.carbibles.com

Time	Content	Lecturer	Classroom
August 8 18:30-20:00	The Introduction of Product Design	Wenyu Wu	J1-201
August 10 14:00-16:30	Product Design Process	Wenyu Wu	J1-201
August 10 18:30-20:00	Design Thinking and Methods	Wenyu Wu	J1-201
August 11 18:30-20:00	Product Producing and Market	Wenyu Wu	J1-201
August 15 18:30-20:00	About the sketching	Xiaozhou Zhou	J1-201
August 17 14:00-16:30	Perspective drawing	Xiaozhou Zhou	J1-201
August 17 18:30-20:00	Sketching Skill	Xiaozhou Zhou	J1-201
August 18 18:30-20:00	Color Material and Finishing	Xiaozhou Zhou	J1-201
August 22 18:30-20:00	The definition of human factors	Haiyan Wang	J1-201
August 24 14:00-16:30	Good Products	Haiyan Wang	J1-201
August 24 18:30-20:00	Information representation	Haiyan Wang	J1-201
August 25 18:30-20:00	Find way out	Haiyan Wang	J1-201

Xiaozhou Zhou

2018

2015-2016

SCI/EI

Haiyan Wang

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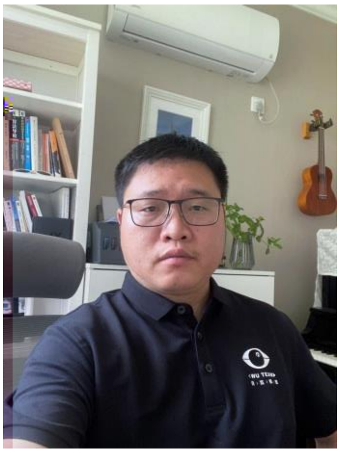

Wenyu Wu

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Alex Brezing (,

TGGS) ,

Alex

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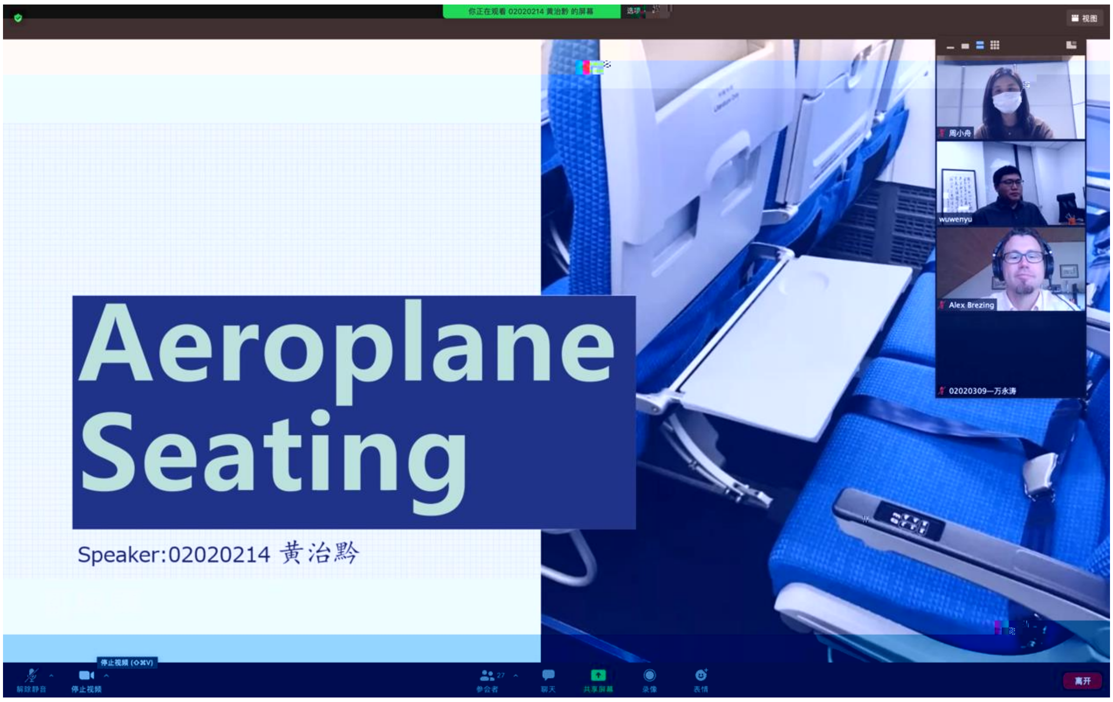
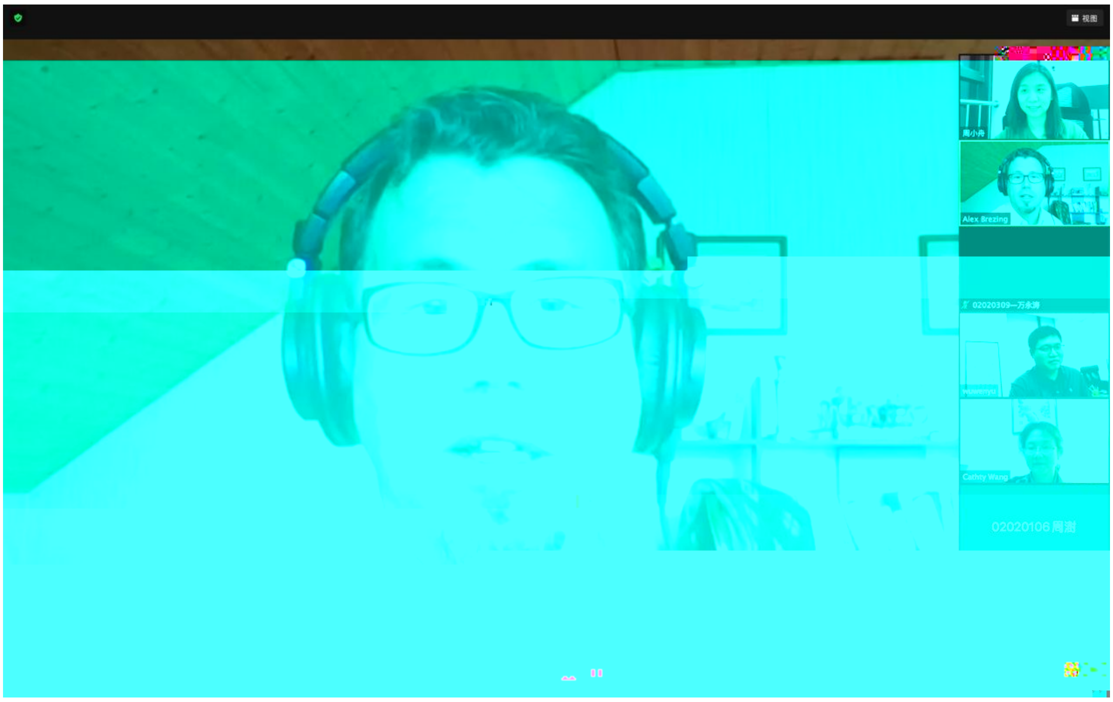


Aeroplane Seating

Speaker:02020214 黄治黔

你正在观看 02020214 黄治黔 的屏幕
选项
视图
周小舟
wuwenyu
Alex Brezing
02020309—万永涛
停止视频 (⇧⌘V)
解除静音
停止视频
参会者 27
聊天
共享屏幕
录像
表情
离开



视图
周小舟
Alex Brezing
02020309—万永涛
wuwenyu
Cathy Wang
02020106周澍

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MATLAB (ADAS)

August 8 20:30-22:00	Introduction	Chin-an Tan	#VooV Meeting: 532-7926-2248
August 10 20:30-22:00	Kinematics	Chin-an Tan	#VooV Meeting: 315-6214-0467
August 13 9:30-12:00	Tutorial on Matlab/Simulink	Chin-an Tan	#VooV Meeting: 555-8949-3299
August 15 20:30-22:00	Bicycle Model	Chin-an Tan	#VooV Meeting: 532-7926-2248
August 17 20:30-22:00	Three-dimension Dynamics	Chin-an Tan	#VooV Meeting: 315-6214-0467
August 20 9:30-12:00	Stability Analysis	Chin-an Tan	#VooV Meeting: 555-8949-3299
August 22 20:30-22:00	How to control a dynamic system	Chin-an Tan	#VooV Meeting: 532-7926-2248
August 24 20:30-22:00	Controllability and Observability	Chin-an Tan	#VooV Meeting: 315-6214-0467
August 27 9:30-12:00	Discussion on	Chin-an Tan	#VooV Meeting: 555-8949-3299
August 29 20:30-22:00	Discussion on ACC	Chin-an Tan	#VooV Meeting: 532-7926-2248
August 31 20:30-22:00	Project Update	Chin-an Tan	#VooV Meeting: 315-6214-0467
September 3 9:30-12:00	Discussion on LKA	Chin-an Tan	#VooV Meeting: 555-8949-3299

Chin-an Tan

Tan Chin-An (University of California at Berkeley) (California Institute of Technology)

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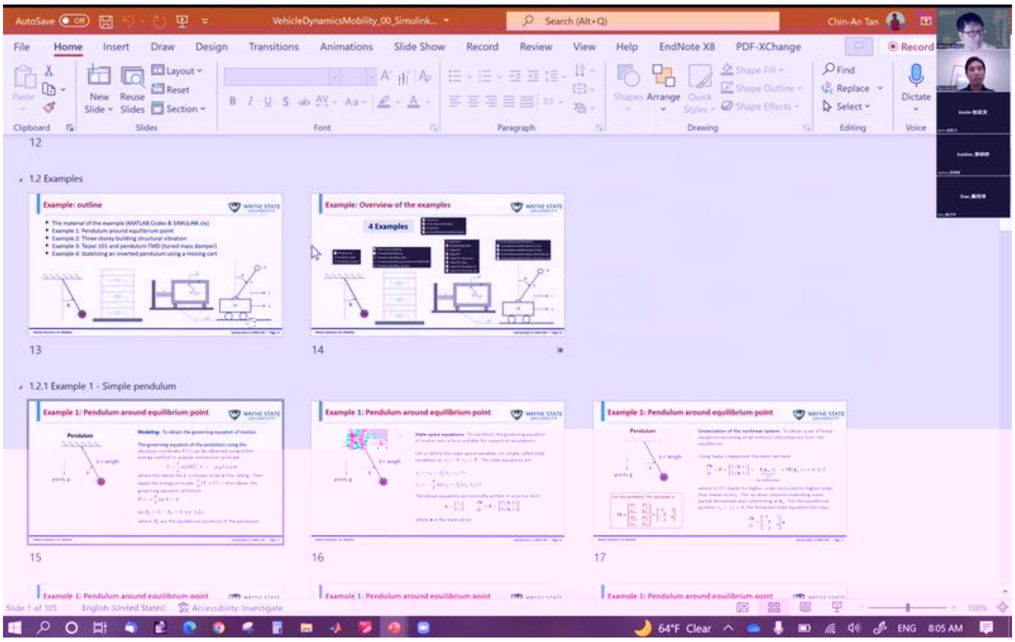
(ASME) ASME ASME

(General Motors Research Laboratory)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12

1.2 Examples

Example: outline

- The material of the example (MATLAB Codes & SIMULINK s/x)
- Example 1: Pendulum around equilibrium point
- Example 2: Three-storey building structural vibration
- Example 3: Taipei 101 and pendulum TMD (tuned mass damper)
- Example 4: Stabilizing an inverted pendulum using a moving cart

13

Example: Overview of the examples

4 Examples

14

1.2.1 Example 1 - Simple pendulum

Example 1: Pendulum around equilibrium point

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Example 1: Pendulum around equilibrium point

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Example 1: Pendulum around equilibrium point

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Example 1: Pendulum around equilibrium point

Example 1: Pendulum around equilibrium point

Example 1: Pendulum around equilibrium point

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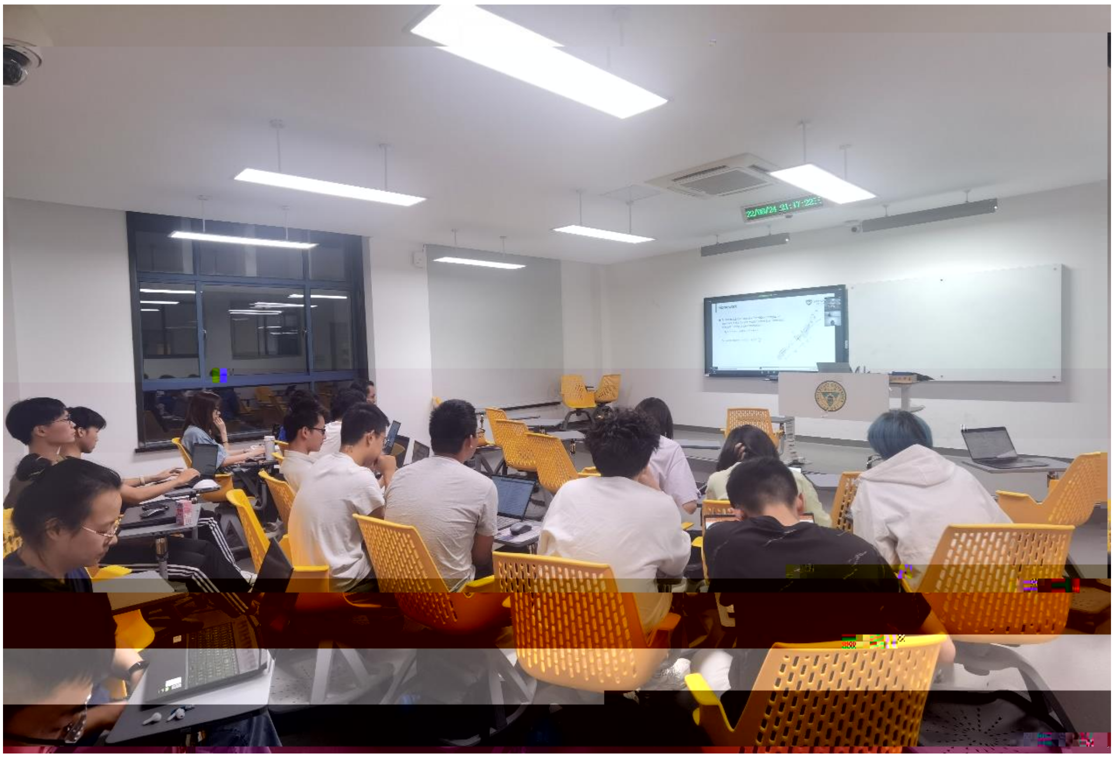

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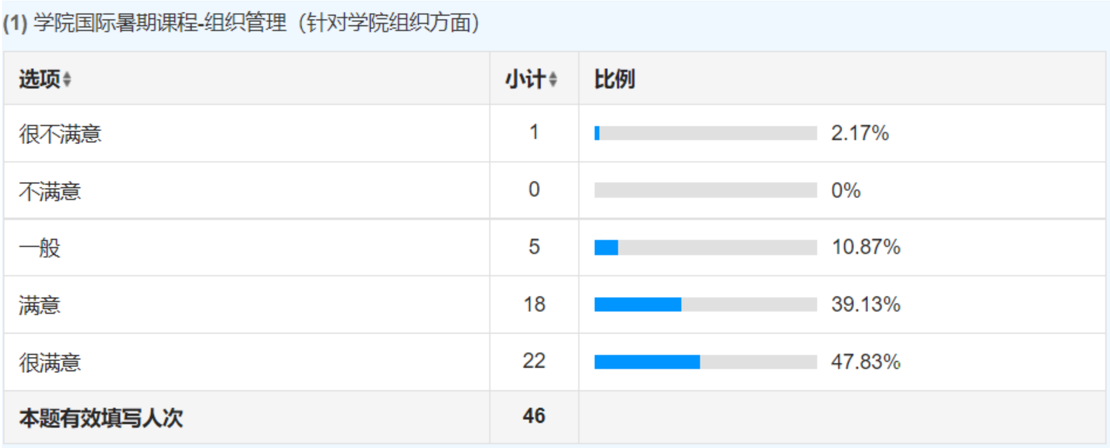
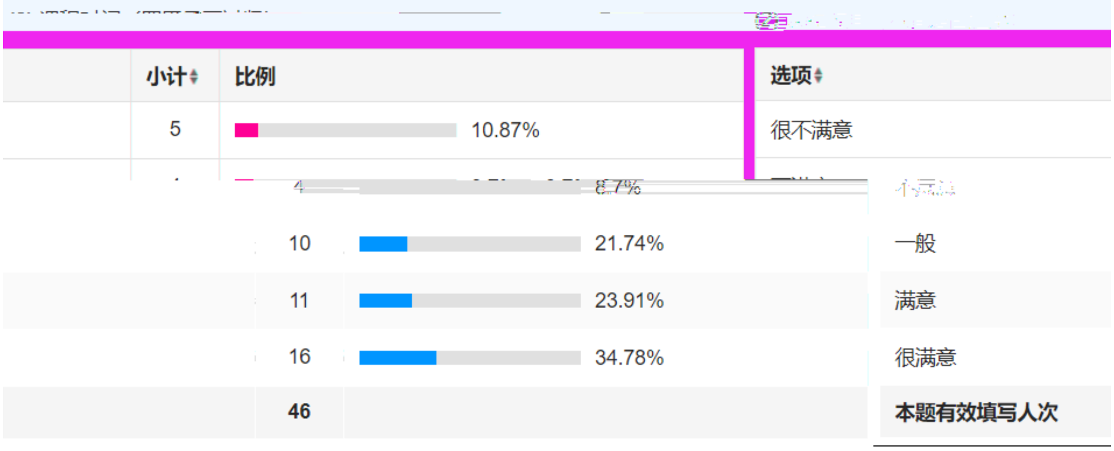


(1) 学院国际暑期课程-组织管理（针对学院组织方面）

选项	小计	比例
很不满意	1	2.17%
不满意	0	0%
一般	5	10.87%
满意	18	39.13%
很满意	22	47.83%
本题有效填写人次	**46**	



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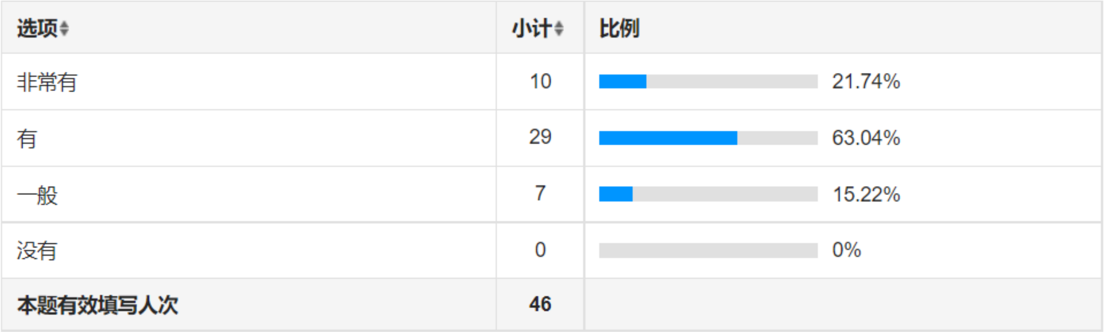
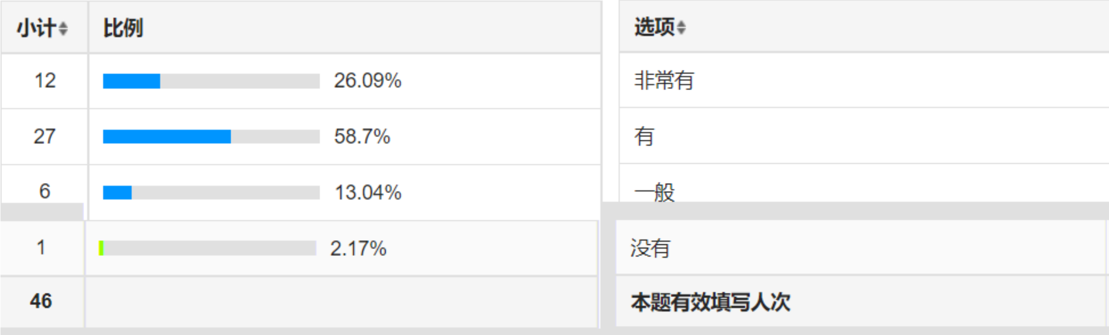
选项	小计	比例
很不满意	5	10.87%
不满意	4	8.7%
一般	10	21.74%
满意	11	23.91%
很满意	16	34.78%
本题有效填写人次	**46**	

第3题：国际暑期课程对我英语交流能力锻炼是否有帮忙 [单选题]

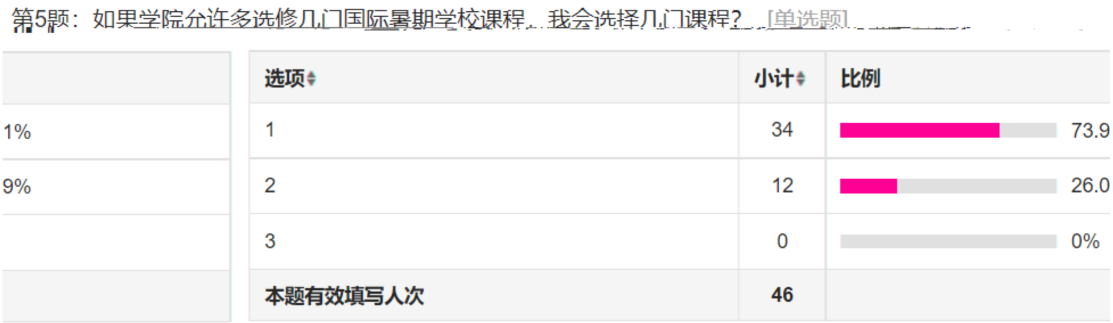


选项	小计	比例
非常有	10	21.74%
有	29	63.04%
一般	7	15.22%
没有	0	0%
本题有效填写人次	**46**	

第4题：国际暑期学校的全英文课程是否能够帮我建立国际视野? [单选题]

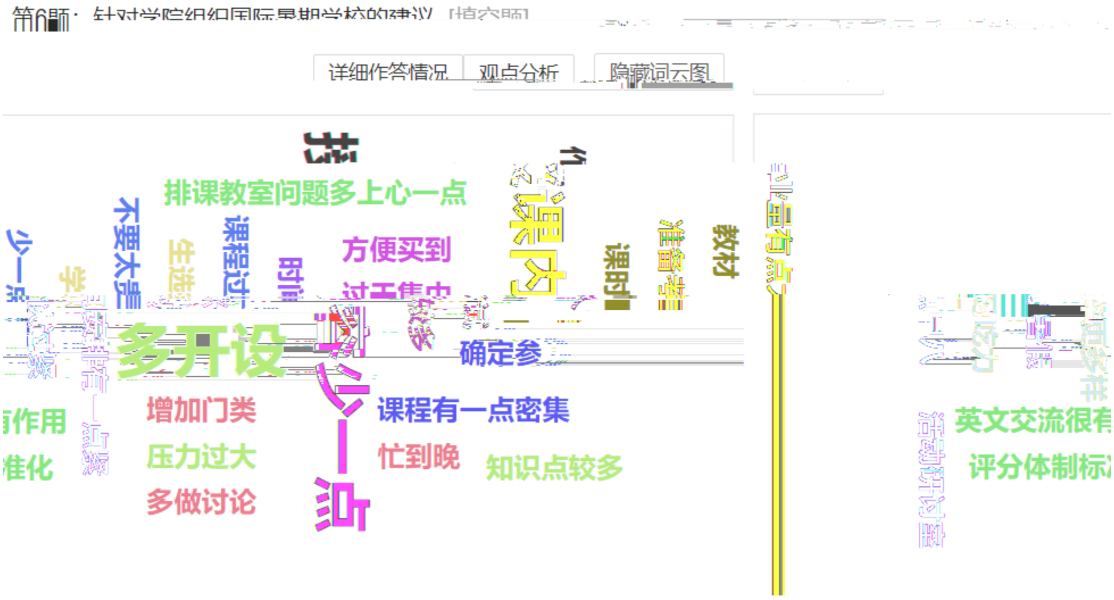


选项	小计	比例
非常有	12	26.09%
有	27	58.7%
一般	6	13.04%
没有	1	2.17%
本题有效填写人次	**46**	



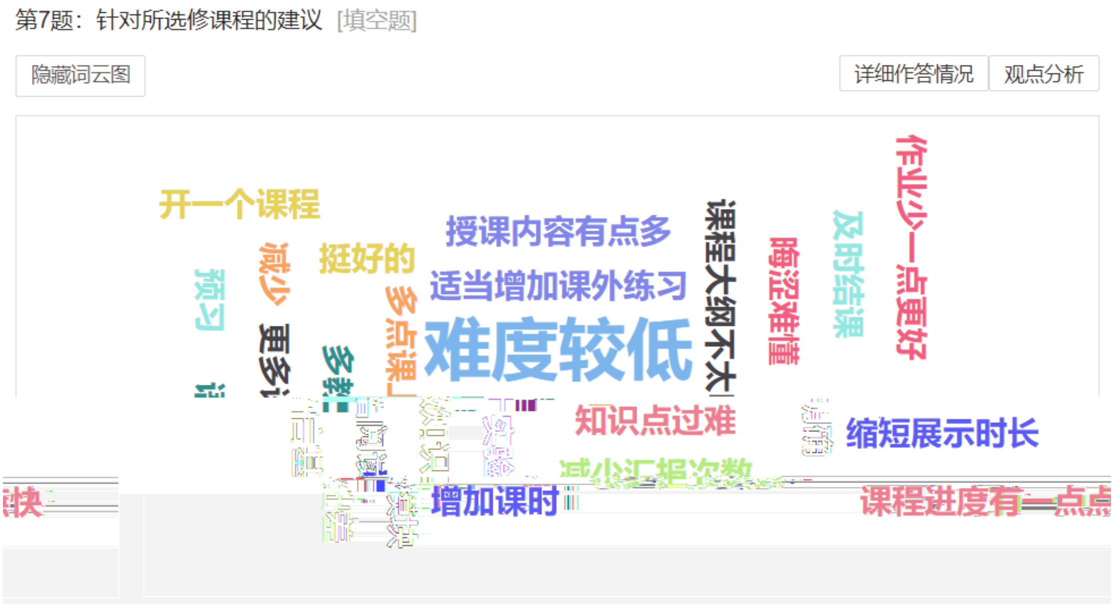
第5题：如果学院允许多选修几门国际暑期学校课程，我会选择几门课程？ [单选题]

	选项	小计	比例
1%	1	34	73.9
9%	2	12	26.0
	3	0	0%
	本题有效填写人次	46	



第6题：针对学院组织国际暑期学校的建议 [填空题]

详细作答情况
观点分析
隐藏词云图
排课教室问题多上心一点
不要太早
课程过
方便买到
多开设
确定参
课程有一点密集
增加门类
压力过大
多做讨论
忙到晚
知识点较多
准备等
教材
作用
化
英文交流很有
评分体制标



第7题：针对所选修课程的建议 [填空题]

隐藏词云图
详细作答情况
观点分析
开一个课程
授课内容有点多
挺好的
减少
预习
适当增加课外练习
多点课
难度较低
课程大纲不太
晦涩难懂
及时结课
作业少一点更好
更多
知识点过难
缩短展示时长
减少汇报次数
增加课时
课程进度有一点
快