



Taiwan Institutional Research Cooperation

TWAEA

## 台灣校務精進協作計畫

# **2022 Analysis Report on Freshman Learning Adaptation - Junior College**

National Tainan Junior College of Nursing

March 2022

TIRC



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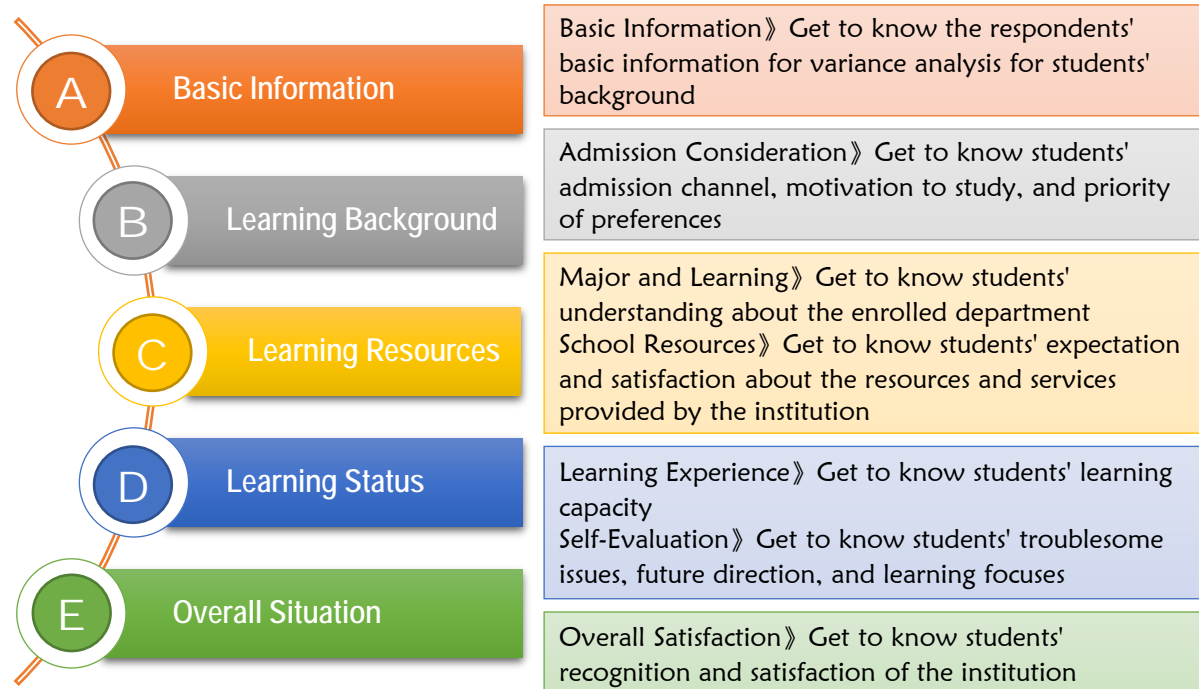
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## Background Information

### I Survey Information

- 【Implementation Period】29th of September, 2021 to 7th of January, 2022  
 【Questionnaire Respondent】Students enrolled in the academic year 2021-22  
 【No. of Responding】3,505 Students  
 【No. of Participating Institution】17 institutions, including 5 public technological universities and 12 private technological universities  
 【Longitudinal Analysis】If an institution has participated in the Freshman Learning Adaptation Survey in the academic year 2020-21, the statistics of 2021 will be shown in this report to help the institution conduct cross-year analysis.

### 2 Questionnaire Structure



### 3 Participating Institutions

- |   |   |
|---|---|
| (1) Cardinal Tien Junior College of Healthcare and Management | (2) Cheng Shiu University                                   |
| (3) Chung Hwa University of Medical Technology                | (4) Hsing Wu University of Science and Technology           |
| (5) Hwa Hsia University of Technology                         | (6) Lunghwa University of Science and Technology            |
| (7) Meiho University  | (8) Nan Kai University of Technology                        |
| (9) National Formosa University                               | (10) National Taichung University of Science and Technology |
| (11) National Tainan Junior College of Nursing                | (12) National Taipei University of Business                 |
| (13) National Taitung Junior College                          | (14) Taipei City University of Science and Technology       |

### 3 Participating Institutions (continued)

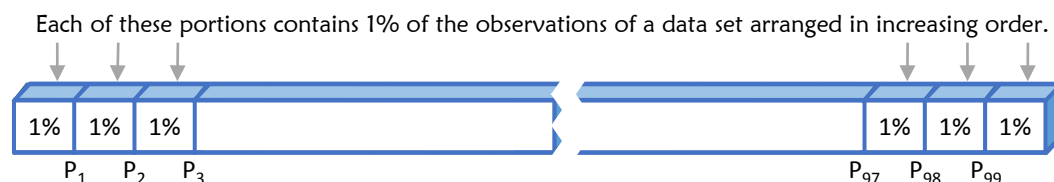
(15) Taipei University of Marine Technology

(16) TungFang Design University

(17) Wenzao Ursuline University of Languages

### 4 Analysis Report Interpretation

- (1) The order of items listed in this report is based on the results from the analysis of quantitative data, qualitative analysis is not included. The result can be provided to the institutions for their improvements on Institutional Research (IR); moreover, the factors such as the characteristics and missions of the institutions, the development plans and environmental conditions shall all be considered for decision making, not from one perspective only to prevent the bias.
- (2) Percentiles are the summary measures that divide a ranked data set into 100 equal parts. Each data set has 99 percentiles that divide it into 100 equal parts. The data should be ranked in increasing order to compute percentiles. The  $k$ th percentile is denoted by  $P_k$ , where  $k$  is an integer in the range 1 to 99. For instance, the 25th percentile is denoted by  $P_{25}$ . Thus, the  $k$ th percentile,  $P_k$ , can be defined as a value in a data set such that about  $k\%$  of the measurements are smaller than the value of  $P_k$  and about  $(100-k)\%$  of the measurements are greater than the value of  $P_k$ . The following figure shows the positions of the 99 percentiles. (Mann 2013, p.121)



Mann, Prem S. (2013). *Introductory Statistics*. 8th ed. Hoboken, NJ: John Wiley & Sons.

- (3) "Likert Scale" is adopted in the questionnaire to have 1 to 5 to represent the level of agreement, satisfaction, understanding, and frequency; 1 to represent strongly disagree, very unsatisfied, no idea at all, and never happened while 5 represent strongly agree, very satisfied, understand fairly well, and very frequently. For the questions that are related to "agreement", "satisfaction", "understanding", and "frequency", 1 to 5 can be adopted to indicate the level of them for data demonstration and analysis comparison.
- (4) The number of response adopted for each question is provided in the "Overview Statistical Results" for users to see the whole picture without misunderstanding. Moreover, "Multiple Choice Questions with Single Answer" show the added number of response while "Multiple Choice Questions with Multiple Answers" cannot be added due to different number of answers and the meanings cannot be recognized for that. "Likert Scale" is used to understand the level of satisfaction and the number of response of each item is listed in the overview table.
- (5) The category of region is listed as follows:
  - 【Northern Region】 Keelung City, Taipei City, New Taipei City, Taoyuan City, Hsinchu City, Hsinchu County, Yilan County
  - 【Central Region】 Miaoli County, Taichung City, Changhua County, Nantou County, Yunlin County
  - 【Southern Region】 Chiayi City, Chiayi County, Tainan City, Kaohsiung City, Pingtung County, Penghu County
  - 【Eastern Region】 Hualien County, Taitung County
  - 【Other Region】 Kinmen County, Lienchiang County, Foreign Countries
- (6) In order to reduce analysis errors, any institution that returns less than five samples for any survey question will not be calculated for the percentile.



## I. Overview Statistical Results

No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
Q1	Gender(%)						
	(1) Male	999	28.50	28.50	26.94	7.98	1
	(2) Female	2,506	71.50	71.50	73.06	92.02	99
Q2	Status(%)						
	(1) Local student	3,470	99.00	99.00	98.86	98.86	43
	(2) Overseas Chinese student	24	0.68	0.68	0.82	0.57	--
	(3) Student from Mainland China	4	0.11	0.11	0.16	0.57	--
	(4) Student from Hong Kong or Macao	1	0.03	0.03	--	--	--
	(5) Foreign student	6	0.17	0.17	0.16	--	--
Q3	Family Financial Situation(%)						
	(1) Extremely rich	15	0.43	0.43	0.16	--	--
	(2) Rich	838	23.91	23.91	26.29	17.38	13
	(3) Middle class	2,296	65.51	65.51	62.69	68.09	68
	(4) Poor	318	9.07	9.07	9.96	14.25	72
	(5) Extremely poor	38	1.08	1.08	0.90	0.28	--
Q4	Culturally Unfavorable Background(%)						
	(1) The first one to study at university/college in the family	852	24.31	24.31	22.12	27.64	68
	(2) New immigrant or second generation of new immigrant	178	5.08	5.08	5.14	6.27	80
	(3) No culturally unfavorable background	2,486	70.93	70.93	72.73	71.51	50
Q5	Types of Junior High School from Which Students Graduated(%)						
	(1) Public Junior High School	3,138	89.53	89.53	90.29	91.17	75
	(2) Private Junior High School	333	9.50	9.50	8.41	7.69	8
	(3) Home study	7	0.20	0.20	0.41	--	--
	(4) others	27	0.77	0.77	0.90	1.14	--
Q6	Locations of Junior High School from Which Students Graduated(%)						
	(1) Northern Region	1,245	35.52	35.52	11.18	4.56	25
	(2) Central Region	972	27.73	27.73	61.71	18.80	50
	(3) Southern Region	1,215	34.66	34.66	24.08	74.64	62
	(4) Eastern Region	59	1.68	1.68	2.94	1.71	1
	(5) Other Region	14	0.40	0.40	0.08	0.28	--
Q7	Major Source of Tuition Fees(%)						
	(1) Contributions/remittance from family	3,240	92.44	92.44	94.78	95.73	68
	(2) Earnings from part-time job	204	5.82	5.82	4.65	2.56	1
	(3) Scholarship	114	3.25	3.25	3.18	4.56	83
	(4) Financial aids	256	7.30	7.30	4.33	6.84	22



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
Q8 Major Source of Educational and Living Expenses(%)							
(1)	Contributions/remittance from family	3,320	94.72	94.72	95.18	97.72	87
(2)	Earnings from part-time job	383	10.93	10.93	9.63	7.12	9
(3)	Scholarship	99	2.82	2.82	3.02	4.27	80
(4)	Financial aids	83	2.37	2.37	1.22	2.28	14
Q9 Ways of Gaining Admission to the School(%)							
(1)	Independent Recruitment	150	4.28	4.28	3.18	4.84	40
(2)	Admission without Examination	2,885	82.31	82.31	82.86	83.76	56
(3)	Continuant Recruitment without Examination	326	9.30	9.30	10.29	7.41	25
(4)	others	144	4.11	4.11	3.67	3.99	37
Q10 Ways of Obtaining Information on the School(%)							
(1)	junior high school teachers	1,759	50.19	50.19	58.20	57.83	93
(2)	campus promotion by the current school	240	6.85	6.85	4.73	3.99	10
(3)	school reputation	636	18.15	18.15	25.71	31.05	90
(4)	department reputation	459	13.10	13.10	14.12	22.22	99
(5)	registration brochure	880	25.11	25.11	28.41	25.36	66
(6)	family	1,804	51.47	51.47	54.37	58.40	81
(7)	friends, classmates, and senior classmates	1,282	36.58	36.58	33.80	36.47	81
(8)	the Internet	949	27.08	27.08	27.27	29.06	80
(9)	cram school	134	3.82	3.82	4.16	3.99	66
(10)	teachers from the current school	108	3.08	3.08	2.53	2.28	33
(11)	advertisements	40	1.14	1.14	1.06	0.85	--
Q11 Main Reasons for Choosing the School(%)							
(1)	grades/scores	1,435	40.94	40.94	45.39	42.74	68
(2)	career planning	1,552	44.28	44.28	48.49	51.28	81
(3)	goal/objectives of education	517	14.75	14.75	16.57	12.82	41
(4)	department reputation	677	19.32	19.32	18.20	23.08	73
(5)	school reputation	625	17.83	17.83	28.16	33.33	90
(6)	internalization	287	8.19	8.19	5.14	0.85	--
(7)	environment and facilities	385	10.98	10.98	11.59	10.83	41
(8)	faculty	221	6.31	6.31	8.24	10.54	63
(9)	advice from family	1,657	47.28	47.28	51.92	62.68	99
(10)	advice from teachers	756	21.57	21.57	25.63	29.63	91
(11)	advice from friends, classmates, and senior classmates	832	23.74	23.74	21.80	20.51	28
(12)	neighborhood and location	633	18.06	18.06	22.94	18.52	60
(13)	financial concerns	376	10.73	10.73	20.41	32.76	99



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
Q12 Considerations for Choosing the Major(%)							
(1)	personal interests	1,963	56.01	56.01	52.24	49.29	12
(2)	growing professional competence	1,930	55.06	55.06	57.31	56.13	62
(3)	employability	1,785	50.93	50.93	51.18	72.65	99
(4)	facilitating further education	675	19.26	19.26	19.51	19.37	58
(5)	admission via examination and placement	290	8.27	8.27	13.55	7.41	40
(6)	peer group	299	8.53	8.53	8.08	9.40	44
(7)	teachers and family	451	12.87	12.87	14.20	18.80	99
Q13 Choice Priority to the School(%)							
(1)	1st - 3rd choice	2,876	82.05	82.05	88.16	93.45	99
(2)	4th - 6th choice	435	12.41	12.41	8.57	5.13	1
(3)	7th - 10th choice	73	2.08	2.08	0.90	0.28	--
(4)	11th choice or lower	121	3.45	3.45	2.37	1.14	--
Q14 Choice Priority to the Department(%)							
(1)	1st - 3rd choice	3,040	86.73	86.73	86.94	91.45	81
(2)	4th - 6th choice	339	9.67	9.67	9.80	5.41	8
(3)	7th - 10th choice	56	1.60	1.60	1.31	1.42	40
(4)	11th choice or lower	70	2.00	2.00	1.96	1.71	25
Q15 Major(%)							
(1)	Information Technology	246	7.02	7.02	16.73	0.28	--
(2)	Engineering	360	10.27	10.27	5.55	--	--
(3)	Mathematics, Physics and Chemistry	3	0.09	0.09	--	--	--
(4)	Medicine and Health	1,549	44.19	44.19	35.35	93.73	99
(5)	Life Sciences	108	3.08	3.08	2.20	0.57	--
(6)	Biological Resources	9	0.26	0.26	--	--	--
(7)	Earth and Environment	3	0.09	0.09	--	--	--
(8)	Architecture and Design	116	3.31	3.31	2.61	--	--
(9)	Art	28	0.80	0.80	1.22	0.85	--
(10)	Sociology and Psychology	20	0.57	0.57	0.98	3.42	99
(11)	Mass Communication	3	0.09	0.09	0.08	--	--
(12)	Foreign Language	418	11.93	11.93	7.35	--	--
(13)	Literature, History and Philosophy	1	0.03	0.03	--	--	--
(14)	Education	97	2.77	2.77	0.08	--	--
(15)	Law and Politics	1	0.03	0.03	--	--	--
(16)	Management	211	6.02	6.02	11.43	--	--
(17)	Finance and Economics	189	5.39	5.39	14.94	--	--
(18)	Recreation and Sports	119	3.40	3.40	0.90	0.57	--
(19)	Other Fields	24	0.68	0.68	0.57	0.57	--





No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
Q16 Activities Held for Freshmen(%)							
(1)	orientation held by school	1,146	32.70	32.70	30.94	54.70	99
(2)	orientation held by department	1,200	34.24	34.24	42.53	47.29	87
(3)	gatherings with seniors	1,245	35.52	35.52	44.08	66.10	92
(4)	welcome activities	1,752	49.99	49.99	62.29	79.77	99
Q17 Understanding towards the Department							
(1)	learning scope and objectives	3,505	3.54	3.54	3.52	3.66	88
(2)	core competencies upon graduation	3,505	3.68	3.68	3.67	3.83	88
(3)	academic curriculum	3,505	3.54	3.54	3.52	3.60	75
(4)	connection between courses and employability	3,505	3.79	3.79	3.80	4.06	99
(5)	abilities which each course intends to build	3,505	3.78	3.78	3.79	3.99	99
(6)	graduation requirements	3,505	3.76	3.76	3.78	3.99	99
Q18 Satisfaction with Overall Curriculum							
(1)	academic challenge	3,505	3.65	3.65	3.70	3.65	62
(2)	teacher's professionalism	3,505	3.92	3.92	4.02	4.16	94
(3)	teaching quality	3,505	3.86	3.86	3.95	4.08	94
(4)	overall satisfaction	3,505	3.83	3.83	3.92	4.03	93
Q19 Expectation for Resources and Services Provided by the School							
(1)	efficient administrative service and flexible solutions	3,505	3.84	3.84	3.93	3.97	88
(2)	convenient course selection system	3,505	3.91	3.91	4.01	4.00	81
(3)	user friendly website	3,505	3.94	3.94	4.06	4.06	88
(4)	plentiful academic resources	3,505	3.77	3.77	3.80	3.76	62
(5)	decent facilities in the library	3,505	3.88	3.88	3.94	3.91	81
(6)	job-relevant internships	3,505	4.03	4.03	4.13	4.18	94
(7)	sound guidance for daily life and career counseling	3,505	3.94	3.94	4.02	4.07	94
(8)	decent support for obtaining certificates and its financial aids	3,505	4.02	4.02	4.10	4.17	94
(9)	decent support for participating in competitions and its financial aids	3,505	3.92	3.92	4.01	4.03	88
(10)	plentiful international interchange opportunities	3,505	3.91	3.91	4.02	4.07	94
(11)	sufficient opportunities for multiple learning	3,505	3.87	3.87	3.94	3.92	81
(12)	international learning sources	3,505	3.78	3.78	3.84	3.79	69
(13)	flexible and appropriate curriculum	3,505	4.04	4.04	4.19	4.19	88





No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
(14)	decent assistance for course selection	3,505	3.96	3.96	4.08	4.09	88
(15)	comprehensive liberal learning courses	3,505	3.91	3.91	4.03	4.02	88
(16)	e-learning and information technology support	3,505	3.83	3.83	3.94	3.86	69
(17)	practical teaching equipment	3,505	4.06	4.06	4.20	4.28	94
(18)	comfortable classrooms	3,505	4.21	4.21	4.36	4.44	94
(19)	multiple student clubs	3,505	4.06	4.06	4.17	4.30	94
(20)	decent dormitory and accommodation	3,505	3.87	3.87	3.91	4.17	94
(21)	good school cafeteria and dining arrangements	3,505	4.13	4.13	4.15	4.42	94
(22)	good amenities on campus	3,505	4.22	4.22	4.35	4.46	94
(23)	clean campus and environment	3,505	4.17	4.17	4.34	4.42	94
(24)	convenient transportation	3,505	4.21	4.21	4.36	4.40	94
(25)	useful information on housing	3,505	3.75	3.75	3.82	4.03	99
(26)	useful information on part-time jobs or scholarship	3,505	4.04	4.04	4.16	4.26	99
Q20 Satisfaction with Resources and Services Provided by the School							
(1)	efficient administrative service and flexible solutions	2,918	3.69	3.69	3.78	3.77	81
(2)	convenient course selection system	2,946	3.77	3.77	3.89	3.98	94
(3)	user friendly website	3,262	3.73	3.73	3.80	3.87	88
(4)	plentiful academic resources	2,880	3.81	3.81	3.88	3.94	88
(5)	decent facilities in the library	2,948	3.92	3.92	3.98	4.03	88
(6)	job-relevant internships	2,538	3.83	3.83	3.93	4.04	94
(7)	sound guidance for daily life and career counseling	2,786	3.80	3.80	3.92	4.02	99
(8)	decent support for obtaining certificates and its financial aids	2,671	3.79	3.79	3.87	3.95	94
(9)	decent support for participating in competitions and its financial aids	2,654	3.78	3.78	3.85	3.91	88
(10)	plentiful international interchange opportunities	2,396	3.70	3.70	3.73	3.62	56
(11)	sufficient opportunities for multiple learning	2,548	3.75	3.75	3.81	3.78	75
(12)	international learning sources	2,679	3.71	3.71	3.78	3.78	69
(13)	flexible and appropriate curriculum	3,009	3.77	3.77	3.85	3.98	99
(14)	decent assistance for course selection	2,849	3.78	3.78	3.87	3.98	99



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
(15)	comprehensive liberal learning courses	2,922	3.78	3.78	3.89	3.96	94
(16)	e-learning and information technology support	2,940	3.73	3.73	3.81	3.87	94
(17)	practical teaching equipment	3,143	3.72	3.72	3.77	3.73	62
(18)	comfortable classrooms	3,257	3.67	3.67	3.75	3.80	88
(19)	multiple student clubs	3,084	3.78	3.78	3.87	3.98	94
(20)	decent dormitory and accommodation	2,565	3.62	3.62	3.70	3.92	94
(21)	good school cafeteria and dining arrangements	2,987	3.43	3.43	3.27	3.45	56
(22)	good amenities on campus	3,242	3.73	3.73	3.89	3.95	99
(23)	clean campus and environment	3,280	3.81	3.81	3.98	4.02	88
(24)	convenient transportation	3,268	3.70	3.70	4.01	4.09	94
(25)	useful information on housing	2,269	3.60	3.60	3.67	3.76	94
(26)	useful information on part-time jobs or scholarship	2,512	3.62	3.62	3.71	3.81	94
Q21 Recognition of Curriculum Arrangement							
(1)	The syllabus is always clearly posted on the website before course selection.	3,505	3.63	3.63	3.72	3.80	88
(2)	I can obtain sufficient professional knowledge and skills through the institution's courses before graduation.	3,505	3.78	3.78	3.91	4.08	99
(3)	I can take the professional programs that I want from my institution.	3,505	3.74	3.74	3.83	3.96	99
Q22 Recognition of Foreign Language Competency							
(1)	I am capable of reading and understanding English text books.	3,505	3.25	3.25	3.36	3.56	94
(2)	My institution's graduation threshold for foreign languages can encourage me in studying harder.	3,505	3.39	3.39	3.48	3.65	88
(3)	I've passed more than one foreign language proficiency tests.	3,505	2.57	2.57	2.57	2.55	44
(4)	I believe that I can use foreign language fluently and effectively in communicating with others after graduation.	3,505	3.12	3.12	3.12	3.12	75



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
Q23 Frequency of Learning Activities							
(1)	ask classmates or seniors to help with class questions	3,505	3.00	3.00	3.02	3.12	81
(2)	help classmates with class questions	3,505	3.25	3.25	3.21	3.25	75
(3)	prepare for exams by discussing or practicing with classmates	3,505	3.43	3.43	3.45	3.64	94
(4)	work with other students on course projects or assignments	3,505	3.64	3.64	3.78	4.19	99
(5)	discuss course topics and ideas with teachers	3,505	3.07	3.07	3.03	2.98	44
(6)	prepare for class and summarize questions in advance	3,505	3.17	3.17	3.07	3.02	31
(7)	listen to teachers attentively and take notes	3,505	3.62	3.62	3.59	3.66	56
(8)	review notes after class and summarize lectures	3,505	3.43	3.43	3.42	3.59	81
(9)	collect information on courses without being asked	3,505	3.22	3.22	3.18	3.12	31
(10)	attend class regularly and punctually	3,505	4.17	4.17	4.34	4.52	94
(11)	meet the class requirements	3,505	4.11	4.11	4.32	4.48	94
Q24 Average Engagement on Particular Activity							
(1)	preparing for class	3,505	3.27	3.27	3.23	3.24	56
(2)	studying courses	3,505	3.43	3.43	3.45	3.50	94
(3)	preparing for certification exams or competitions	3,505	2.93	2.93	2.75	2.65	6
(4)	doing assignments or reports	3,505	3.63	3.63	3.75	3.95	99
(5)	extracurricular activities	3,505	3.17	3.17	3.02	3.67	94
(6)	community service or volunteering	3,505	2.59	2.59	2.35	2.50	31
(7)	leisure activities	3,505	3.43	3.43	3.46	3.71	99
(8)	using the Internet or smartphone	3,505	3.56	3.56	3.58	3.60	75
(9)	part-time job	3,505	2.20	2.20	1.93	1.70	6
(10)	spending time with family	3,505	3.64	3.64	3.68	3.50	12
(11)	spending time with girlfriend/boyfriend	3,505	2.23	2.23	1.94	1.86	12
Q25 Recognition of Learning Attitude							
(1)	think it interesting to learn most of the classes	3,505	3.42	3.42	3.46	3.47	69
(2)	find additional things to learn beside courses in school	3,505	3.55	3.55	3.60	3.64	88
(3)	learn things via multiple ways	3,505	3.43	3.43	3.46	3.44	69



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
(4)	prepare for class	3,505	3.62	3.62	3.70	3.77	88
(5)	concentrate on studying and ignore distractions	3,505	3.26	3.26	3.22	3.21	50
(6)	ask questions in class	3,505	2.80	2.80	2.72	2.50	1
(7)	engage in course discussions and express opinions	3,505	3.13	3.13	3.13	3.07	38
(8)	solve problems at the best when facing challenges	3,505	3.56	3.56	3.65	3.69	88
(9)	stay positive and motivated	3,505	3.54	3.54	3.63	3.68	94
<b>Q26 Recognition of Curriculum Learning</b>							
(1)	keep up with class in general	3,505	3.48	3.48	3.49	3.60	81
(2)	concentrate on studying	3,505	3.38	3.38	3.36	3.40	69
(3)	make good use of time to learn	3,505	3.35	3.35	3.31	3.29	50
(4)	learn class materials effectively	3,505	3.23	3.23	3.19	3.19	44
(5)	feel satisfied with the academic performance	3,505	3.19	3.19	3.10	3.09	12
(6)	turn effort to academic performance proportionally	3,505	3.32	3.32	3.29	3.26	25
(7)	know how to ask for help while encountering difficulty in learning	3,505	3.55	3.55	3.62	3.68	88
(8)	set priorities and schedule appropriately	3,505	3.49	3.49	3.51	3.52	75
(9)	collaborate well with others on coursework	3,505	3.56	3.56	3.65	3.86	99
(10)	good at writing reports	3,505	3.19	3.19	3.24	3.28	88
(11)	deliver oral presentation readily	3,505	2.89	2.89	2.89	2.99	69
(12)	get to points from lecturers	3,505	3.28	3.28	3.27	3.30	75
<b>Q27 Recognition of Teaching Methods</b>							
(1)	lecture and explanation from teachers	3,505	3.56	3.56	3.65	3.79	99
(2)	assigned readings	3,505	3.59	3.59	3.67	3.79	94
(3)	videos or multimedia used for teaching	3,505	3.62	3.62	3.70	3.79	99
(4)	case study	3,505	3.68	3.68	3.78	3.91	99
(5)	interactive activities	3,505	3.58	3.58	3.66	3.74	94
(6)	teamwork	3,505	3.58	3.58	3.68	3.81	99
(7)	experiment and exercise with the aid of teachers	3,505	3.57	3.57	3.64	3.88	99
(8)	course project	3,505	3.52	3.52	3.61	3.77	99
(9)	keynote speech or demonstration	3,505	3.38	3.38	3.37	3.48	75
(10)	field trip or tour	3,505	3.23	3.23	3.17	3.22	44



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
(11)	co-teaching or team-teaching	3,505	3.13	3.13	3.03	3.03	44
(12)	review and summary of key points by teachers after students watch teaching video	3,505	3.46	3.46	3.48	3.55	88
Q28 Troublesome Issues(%)							
(1)	preparing for class	1,728	49.30	49.30	53.47	51.00	75
(2)	getting learning support and resources	645	18.40	18.40	17.55	15.67	46
(3)	time management	1,736	49.53	49.53	58.12	65.81	99
(4)	emotional management	735	20.97	20.97	19.67	27.64	86
(5)	health management	555	15.83	15.83	16.08	23.36	91
(6)	Internet/online games addiction	665	18.97	18.97	24.90	20.51	58
(7)	interacting with family	473	13.50	13.50	11.92	18.23	84
(8)	financial pressure	591	16.86	16.86	13.96	19.66	60
(9)	pressure from academic competition	1,033	29.47	29.47	33.22	43.59	92
(10)	interacting with teachers	326	9.30	9.30	8.49	6.55	1
(11)	participating in school clubs	322	9.19	9.19	9.39	12.25	80
(12)	interacting with classmates	853	24.34	24.34	25.31	27.92	80
(13)	future direction	795	22.68	22.68	24.49	22.51	46
(14)	socializing/interacting with the opposite sex	629	17.95	17.95	17.47	19.66	66
Q29 Key Focus for Career and Life Planning(%)							
(1)	continuing the education in Taiwan	1,580	45.08	45.08	56.90	63.53	99
(2)	studying abroad	389	11.10	11.10	8.73	6.55	30
(3)	working	741	21.14	21.14	13.71	13.11	20
(4)	military service	46	1.31	1.31	0.90	0.85	--
(5)	under planning	749	21.37	21.37	19.76	15.95	1
Q30 Learning Focuses during School Years(%)							
(1)	professional skills at work	2,374	67.73	67.73	72.90	79.49	99
(2)	leadership, management and planning	1,236	35.26	35.26	40.49	37.04	68
(3)	software used for word processing	830	23.68	23.68	30.53	17.95	18
(4)	information technology application	765	21.83	21.83	30.20	11.40	7
(5)	foreign languages	1,714	48.90	48.90	55.43	56.70	86
(6)	transferring internationally	669	19.09	19.09	21.55	19.66	71
(7)	written communication	712	20.31	20.31	23.59	23.36	66
(8)	reading comprehension	1,074	30.64	30.64	33.39	34.47	93
(9)	clear and organized presentation	1,548	44.17	44.17	52.57	60.40	93
(10)	interpersonal communication	2,042	58.26	58.26	62.29	72.36	99



No.	Item	No. of response	Average of all 17 universities	Technological University	Public Technological University	NTIN(n=351)	
						Average	Percentile
(11)	teamwork	1,700	48.50	48.50	53.39	65.53	99
(12)	innovative and creative thinking	994	28.36	28.36	31.92	28.49	37
(13)	entrepreneurship	678	19.34	19.34	21.55	17.38	20
(14)	administrative coordination	445	12.70	12.70	15.51	17.38	81
(15)	problem detecting and solving	1,020	29.10	29.10	34.45	41.31	87
(16)	project implementation	723	20.63	20.63	25.31	26.78	85
(17)	numerical and logical reasoning	548	15.63	15.63	20.16	10.54	7
(18)	analysis and critical thinking	947	27.02	27.02	31.51	35.04	86
(19)	interdisciplinary integration	514	14.66	14.66	19.18	16.24	61
(20)	information collection and processing	701	20.00	20.00	25.55	21.08	57
(21)	emotional management	1,133	32.33	32.33	32.08	43.30	99
(22)	time management	1,544	44.05	44.05	48.73	58.12	99
<b>Q31 Status of Self-Evaluation</b>							
(1)	considering transferring to other school	3,505	1.96	1.96	1.68	1.67	12
(2)	considering changing major	3,505	1.78	1.78	1.73	1.55	25
(3)	considering taking the entrance exam again	3,505	1.57	1.57	1.40	1.33	6
(4)	considering dropping out of school	3,505	1.48	1.48	1.38	1.32	6
(5)	clearly understand the purpose of getting into college	3,505	3.65	3.65	3.67	3.89	99
(6)	positive results can be expected during school time	3,505	3.55	3.55	3.63	3.81	99
(7)	learn things happily	3,505	3.53	3.53	3.64	3.64	69
(8)	clearly understand learning goal	3,505	3.59	3.59	3.64	3.79	94
<b>Q32 Recognition of Overall Situation</b>							
(1)	I am willing to recommend others to study at my department.	3,505	3.52	3.52	3.56	3.63	81
(2)	I am willing to recommend others to study at my school.	3,505	3.54	3.54	3.84	3.93	94
(3)	As a whole, I think the climate for learning in my institution is good.	3,505	3.53	3.53	3.76	3.90	94
(4)	As a whole, I am satisfied with my school.	3,505	3.61	3.61	3.85	3.95	94

## II. Basic Information

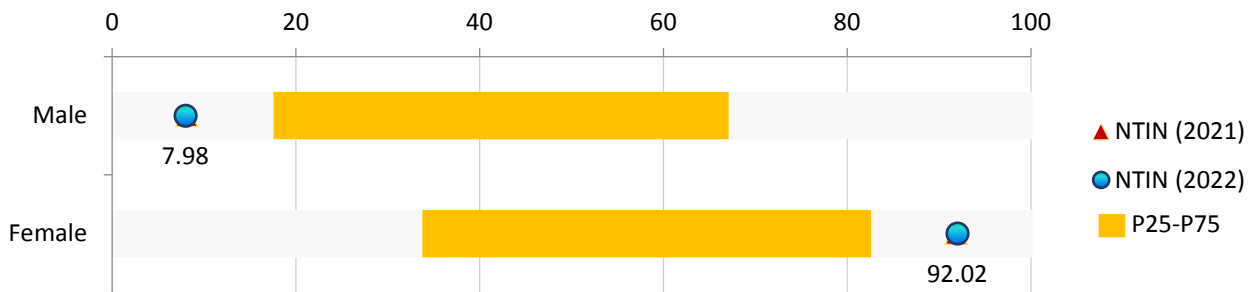
### 1. 【Q1】 Gender

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Male	7.98	1	8.12	6	17.55	67.10 **
Female	92.02	99	91.88	93	33.76 **	82.61

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 2-1】 Students' Gender in comparison with P25, P75 & 2021(%)



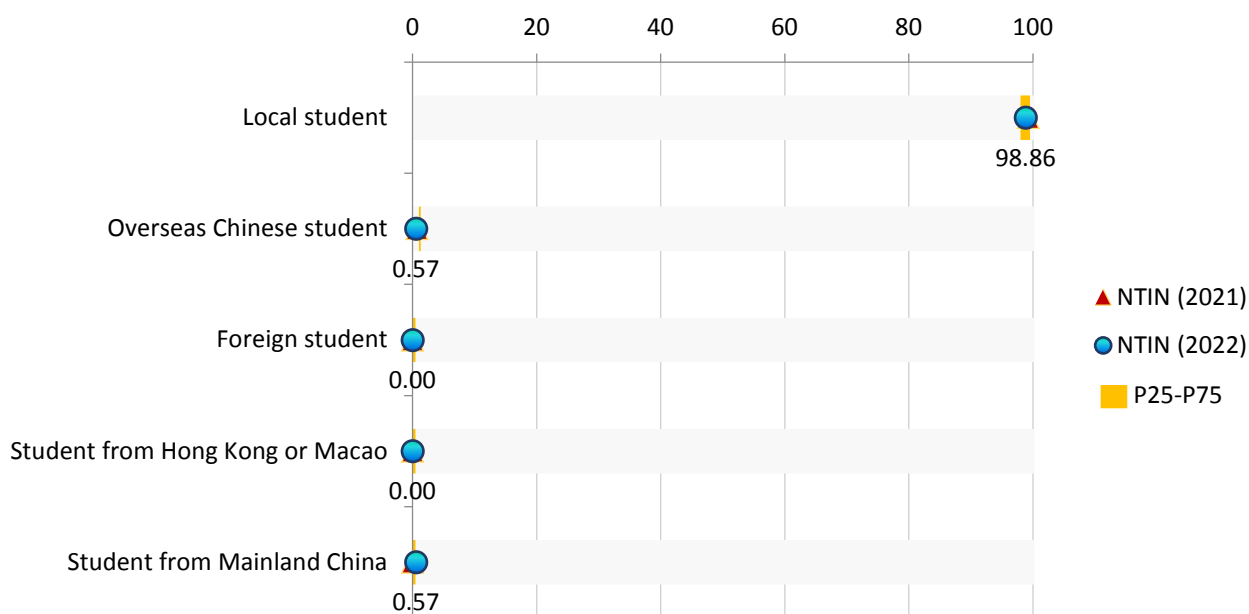
## 2. 【Q2】 Status

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Local student	98.86	43	99.26	68	98.00	99.56
Overseas Chinese student	0.57	--	0.74	--	1.03	1.35
Foreign student	0.00	--	0.00	--	--	--
Student from Hong Kong or Macao	0.00	--	0.00	--	--	--
Student from Mainland China	0.57	--	0.00	--	--	--

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that have joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 2-2】 Students' Status in comparison with P25, P75 & 2021(%)

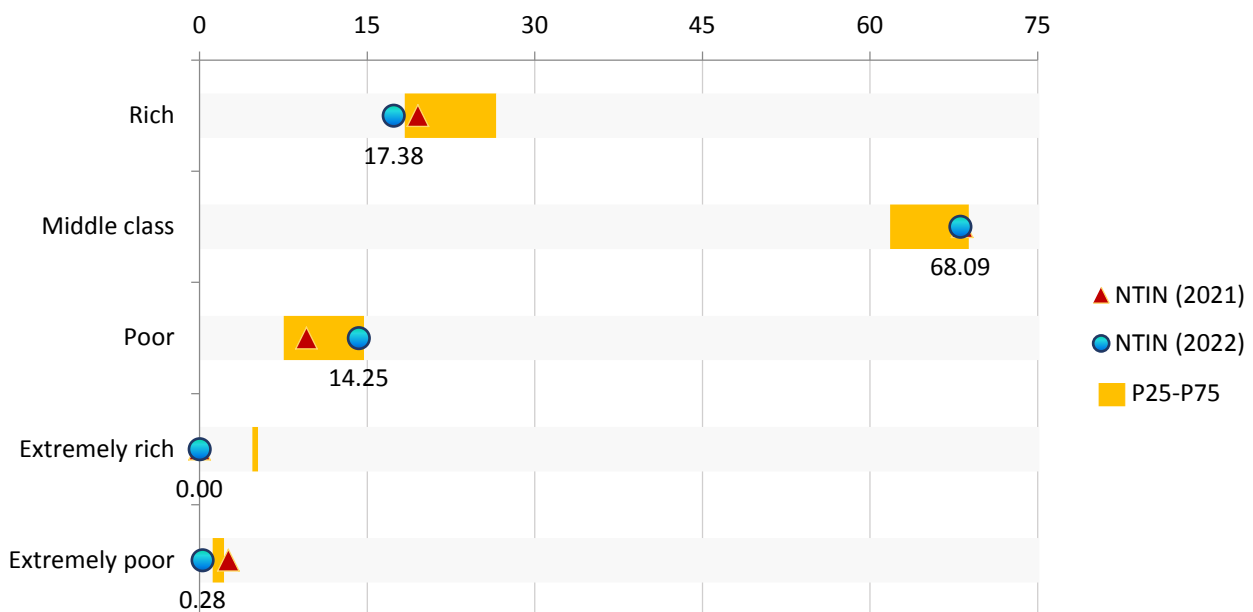
### 3. 【Q3】 Family Financial Situation

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Rich	17.38	13	19.56	50	18.36	26.56
Middle class	68.09	68	68.27	43	61.79	68.85
Poor	14.25	72	9.59	50	7.54	14.72
Extremely rich	0.00	--	0.00	--	4.73 *	4.73 *
Extremely poor	0.28	--	2.58	60	1.17	2.20

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that have joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 2-3】 Students' Family Financial Situation in comparison with P25, P75 & 2021(%)

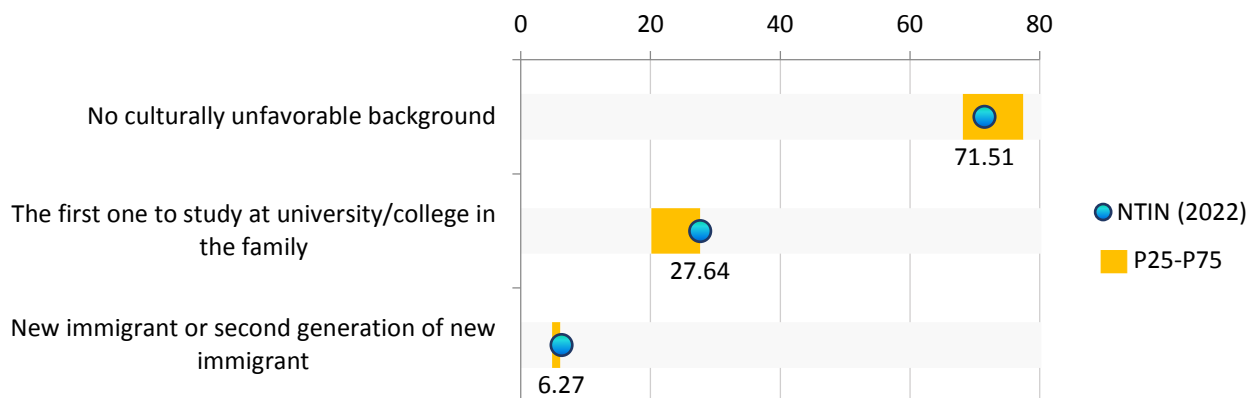
#### 4. 【Q4】 Culturally Unfavorable Background

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
No culturally unfavorable background	71.51	50	--	--	68.18	77.51
The first one to study at university/college in the family	27.64	68	--	--	20.12	27.66
New immigrant or second generation of new immigrant	6.27	80	--	--	4.82	6.09

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【 Figure 2-4 】 Students' Culturally Unfavorable Background in comparison with P25 & P75(%)

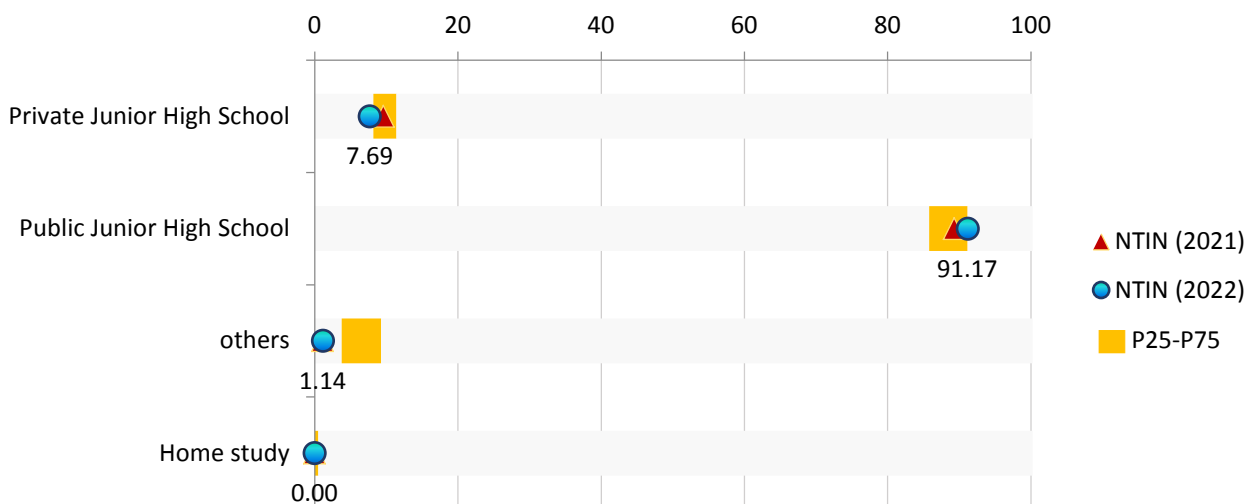
## 5. 【Q5】Types of Junior High School from Which Students Graduated

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Private Junior High School	7.69	8	9.59	33	8.20	11.42
Public Junior High School	91.17	75	89.30	68	85.80	91.17
others	1.14	--	1.11	--	3.76	9.25 *
Home study	0.00	--	0.00	--	--	--

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 2-5】Types of Junior High School from Which Students Graduated in comparison with P25, P75 & 2021(%)

## 6. 【Q6】Locations of Junior High School from Which Students Graduated

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Eastern Region	1.71	1	0.00	--	2.83	38.45 **
Northern Region	4.56	25	4.43	25	4.56	94.84 **
Central Region	18.80	50	13.65	72	5.08 **	52.68 **
Southern Region	74.64	62	81.55	37	16.00 **	88.08
Other Region	0.28	--	0.37	--	1.17	1.17

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .

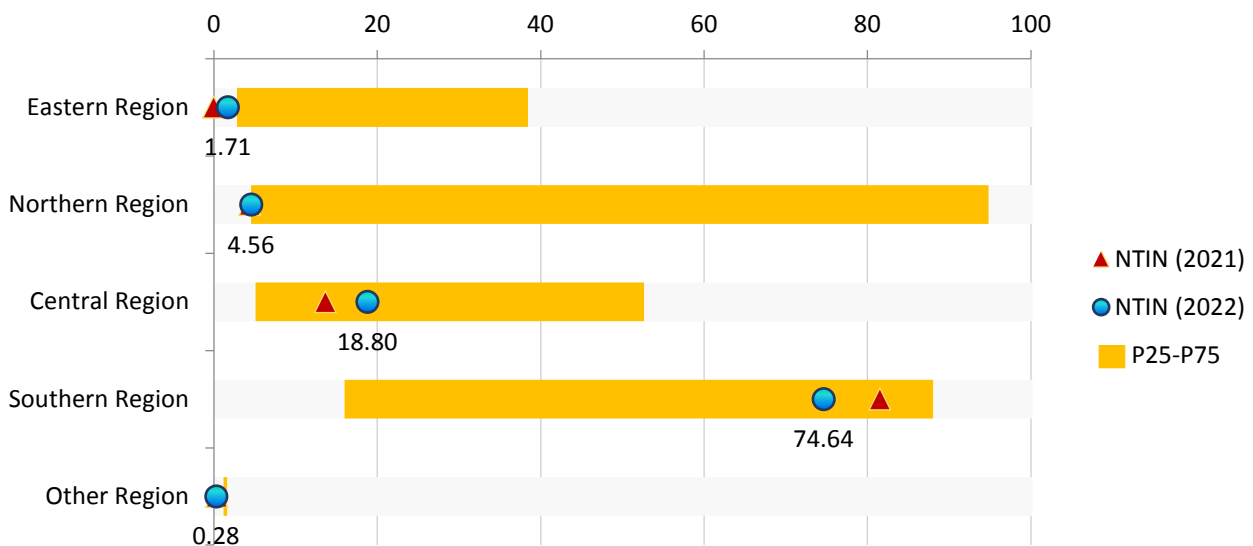
Note 4: 【Northern Region】 Keelung City, Taipei City, New Taipei City, Taoyuan City, Hsinchu City, Hsinchu County, Yilan County

【Central Region】 Miaoli County, Taichung City, Changhua County, Nantou County, Yunlin County

【Southern Region】 Chiayi City, Chiayi County, Tainan City, Kaohsiung City, Pingtung County, Penghu County

【Eastern Region】 Hualien County, Taitung County

【Other Region】 Kinmen County, Lienchiang County, Foreign Countries



【Figure 2-6】Locations of Junior High School from Which Students Graduated in comparison with P25, P75 & 2021(%)

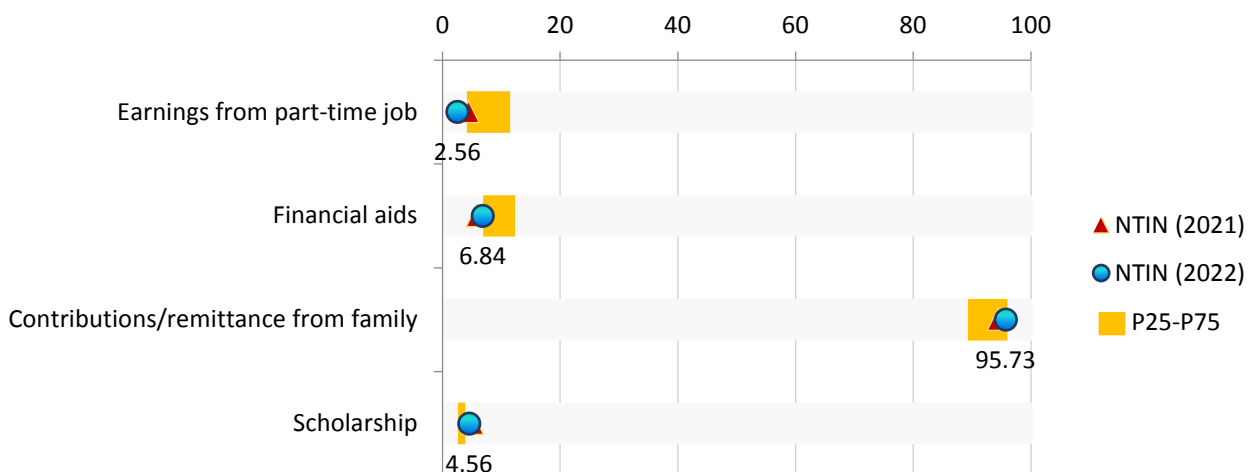
## 7. 【Q7】 Major Source of Tuition Fees

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Earnings from part-time job	2.56	1	4.43	7	4.15	11.56 *
Financial aids	6.84	22	5.90	36	6.90	12.36
Contributions/remittance from family	95.73	68	94.46	75	89.29	96.03
Scholarship	4.56	83	5.17	81	2.62	3.90

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 2-7】 Students' Major Source of Tuition Fees in comparison with P25, P75 & 2021(%)

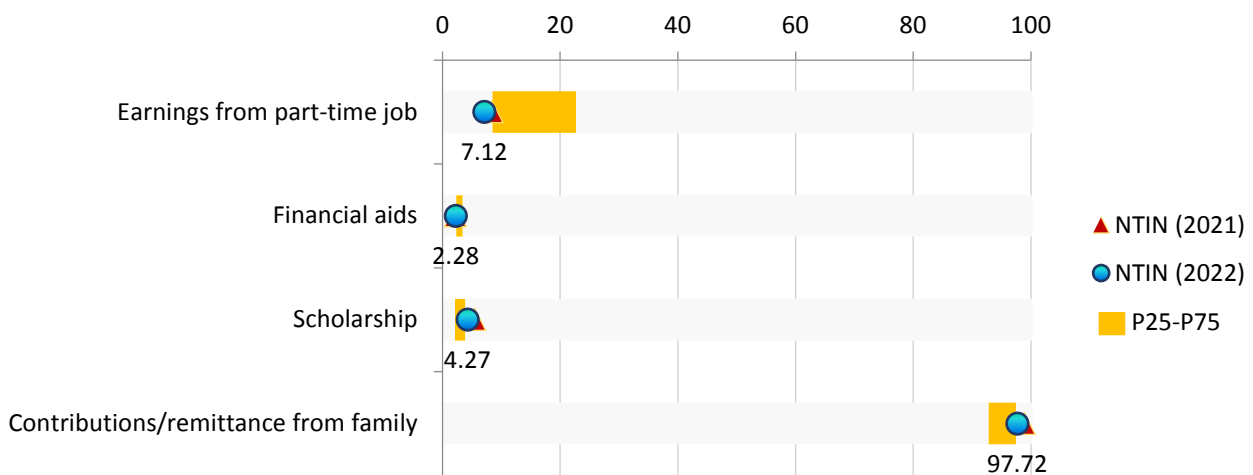
## 8. 【Q8】 Major Source of Educational and Living Expenses

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Earnings from part-time job	7.12	9	8.49	1	8.49	22.70 **
Financial aids	2.28	14	2.21	14	2.34	3.45
Scholarship	4.27	80	5.54	88	2.13	3.85
Contributions/remittance from family	97.72	87	98.89	99	92.86	97.44

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 2-8】 Students' Major Source of Educational and Living Expenses in comparison with P25, P75 & 2021(%)



### III. Admission Consideration

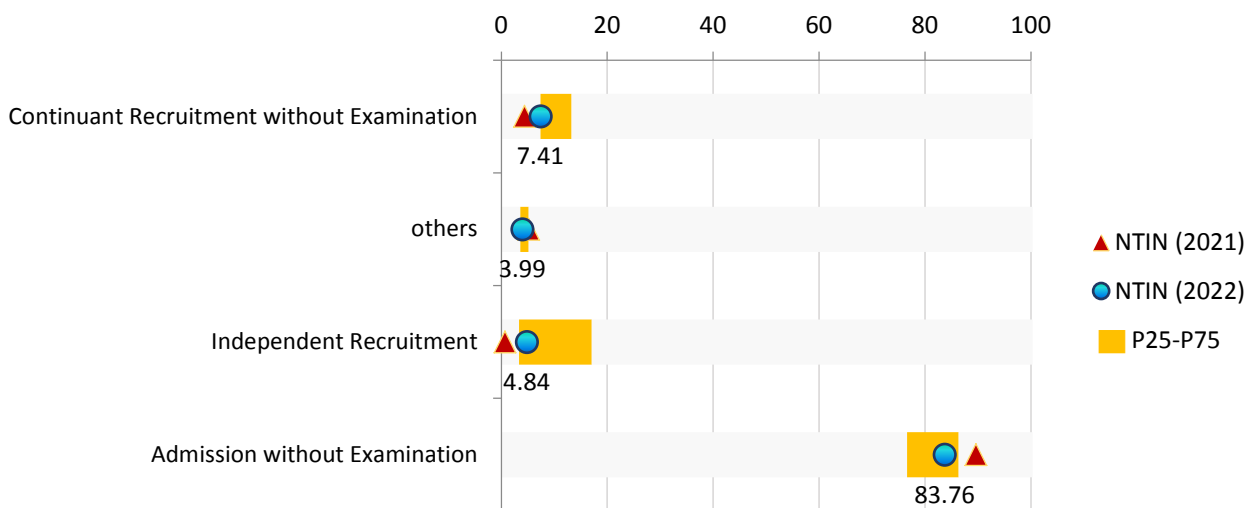
#### 1. 【Q9】 Ways of Gaining Admission to the School

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Continuant Recruitment without Examination	7.41	25	4.43	6	7.41	13.24
others	3.99	37	5.17	25	3.62	5.17
Independent Recruitment	4.84	40	0.74	--	3.34	17.10 **
Admission without Examination	83.76	56	89.67	99	76.60	86.36

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 3-1】 Students' Ways of Gaining Admission to the School in comparison with P25, P75 & 2021(%)



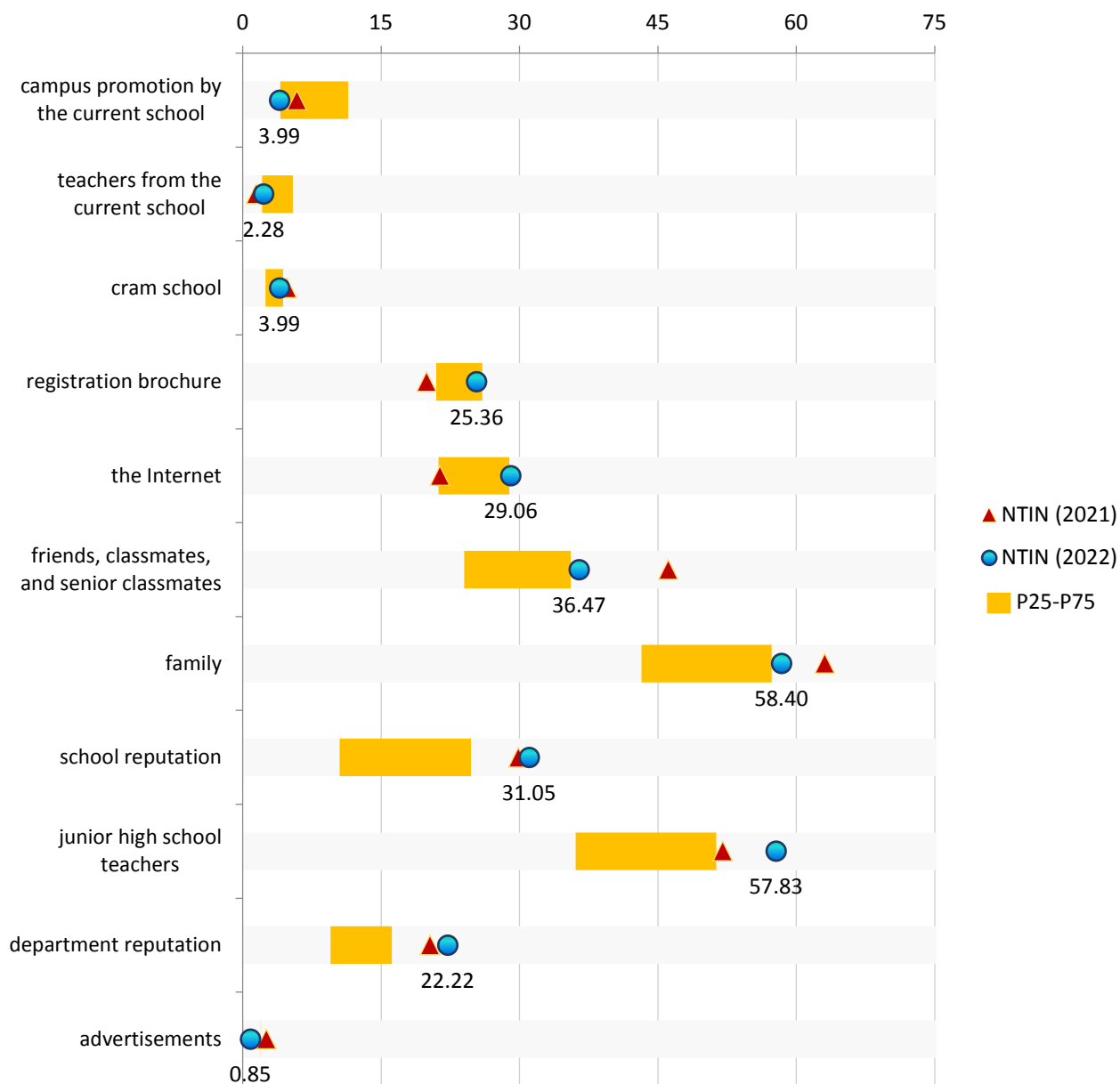
## 2. 【Q10】Ways of Obtaining Information on the School

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
campus promotion by the current school	3.99	10	5.90	13	4.09	11.46
teachers from the current school	2.28	33	1.48	--	2.09	5.45
cram school	3.99	66	4.80	66	2.46	4.38
registration brochure	25.36	66	19.93	46	20.97	25.99
the Internet	29.06	80	21.40	50	21.23	28.93
friends, classmates, and senior classmates	36.47	81	46.13	93	24.00	35.56
family	58.40	81	63.10	87	43.23	57.35
school reputation	31.05	90	29.89	84	10.50 **	24.75
junior high school teachers	57.83	93	52.03	81	36.07 *	51.35
department reputation	22.22	99	20.30	99	9.52 *	16.20
advertisements	0.85	--	2.58	57	1.95	1.96

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 3-2】 Students' Ways of Obtaining Information on the School in comparison with P25, P75 & 2021(%)

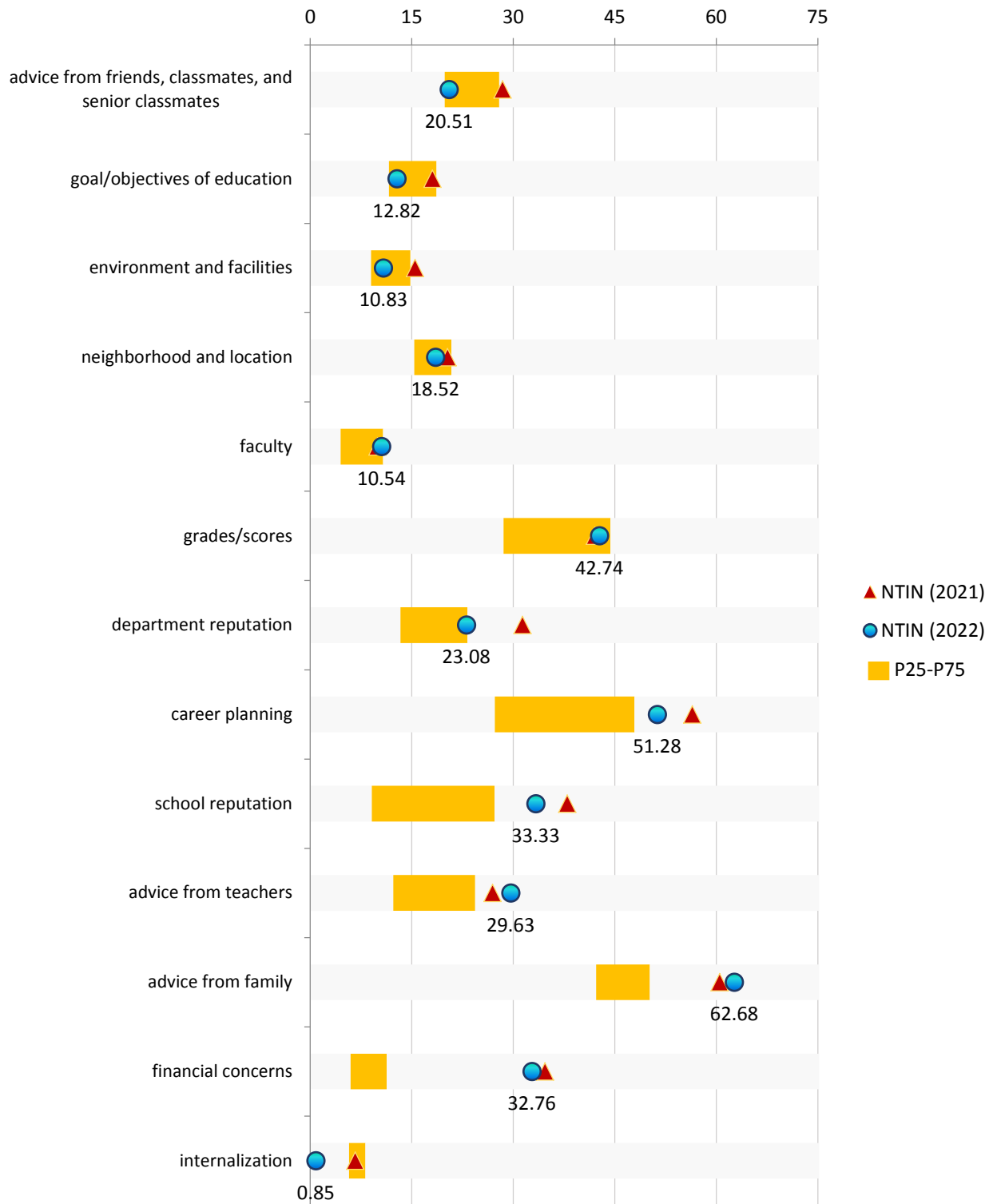
### 3. 【Q11】 Main Reasons for Choosing the School

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
advice from friends, classmates, and senior classmates	20.51	28	28.41	93	19.87	27.91
goal/objectives of education	12.82	41	18.08	75	11.61	18.67
environment and facilities	10.83	41	15.50	85	8.97	14.79
neighborhood and location	18.52	60	20.30	68	15.37	20.85
faculty	10.54	63	9.96	81	4.49	10.76
grades/scores	42.74	68	42.07	75	28.57	44.38
department reputation	23.08	73	31.37	99	13.31	23.22
career planning	51.28	81	56.46	87	27.27 **	47.90
school reputation	33.33	90	38.01	92	9.08 **	27.24
advice from teachers	29.63	91	26.94	73	12.26 **	24.36
advice from family	62.68	99	60.52	93	42.23 *	50.20
financial concerns	32.76	99	34.69	99	5.97 **	11.27 **
internalization	0.85	--	6.64	53	5.74	8.14 *

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 3-3】 Students' Main Reasons for Choosing the School in comparison with P25, P75 & 2021(%)

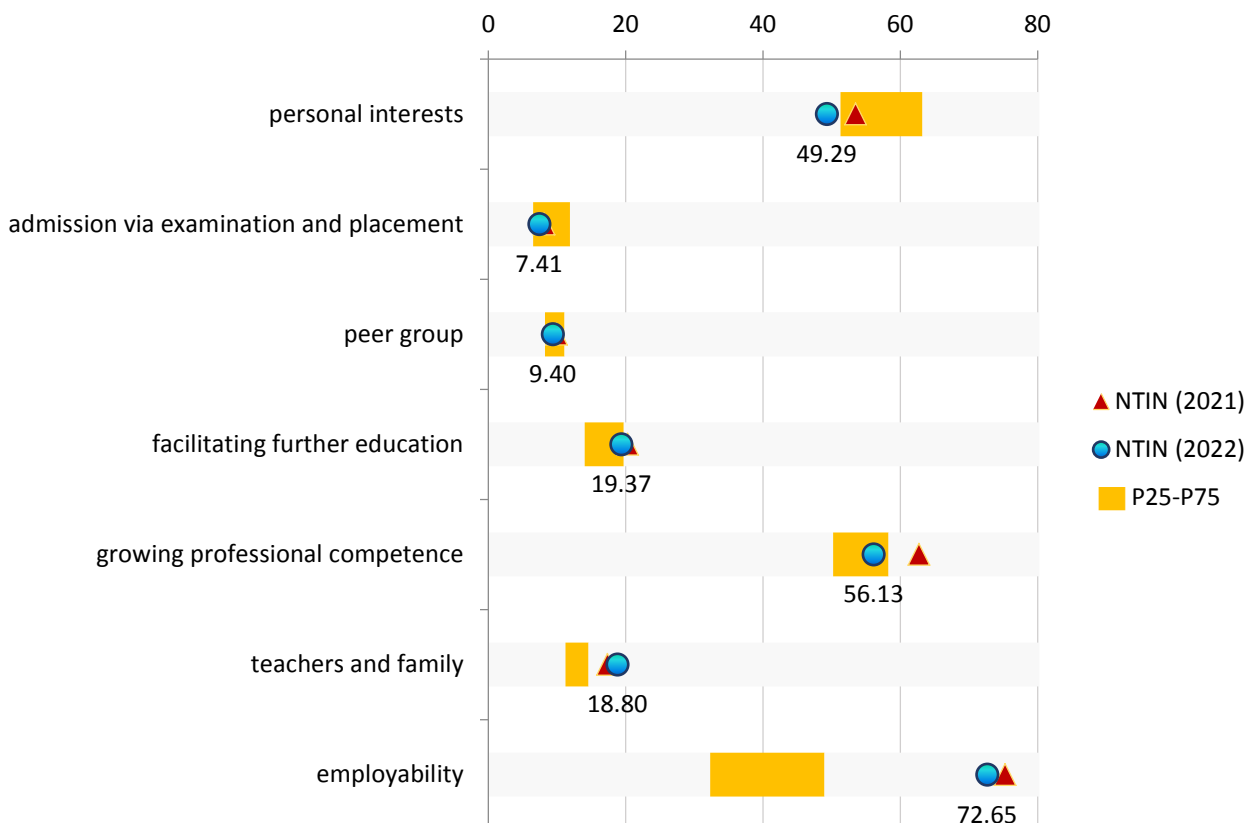
#### 4. 【Q12】 Considerations for Choosing the Major

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
personal interests	49.29	12	53.51	43	51.29	63.23
admission via examination and placement	7.41	40	8.12	64	6.49	11.88
peer group	9.40	44	9.96	46	8.23	11.10
facilitating further education	19.37	58	20.30	66	14.01	19.69
growing professional competence	56.13	62	62.73	93	50.22	58.27
teachers and family	18.80	99	17.34	92	11.22	14.60
employability	72.65	99	75.28	99	32.30 **	48.95 *

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 3-4】 Students' Considerations for Choosing the Major in comparison with P25, P75 & 2021(%)

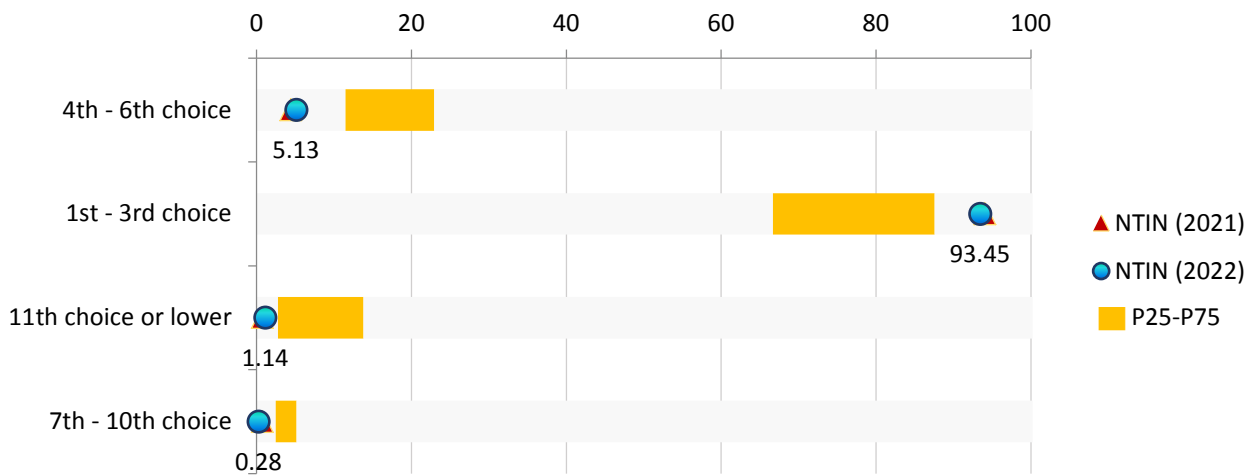
## 5. 【Q13】 Choice Priority to the School

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
4th - 6th choice	5.13	1	4.43	1	11.49	22.94 **
1st - 3rd choice	93.45	99	94.10	93	66.67 *	87.55
11th choice or lower	1.14	--	0.74	--	2.77	13.82 **
7th - 10th choice	0.28	--	0.74	--	2.49	5.16 *

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【 Figure 3-5 】 Students' Choice Priority to the School in comparison with P25, P75 & 2021(%)



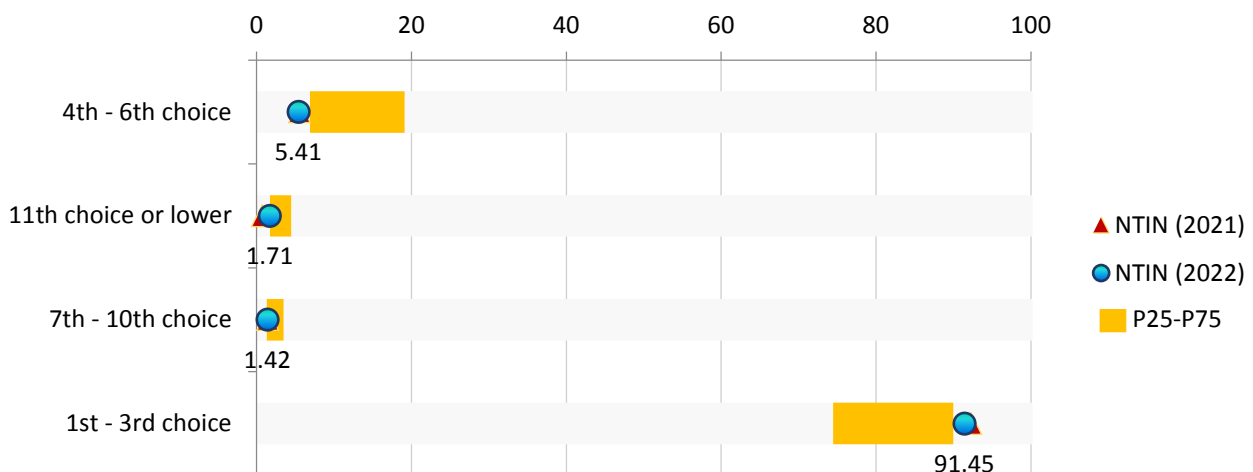
## 6. 【Q14】 Choice Priority to the Department

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
4th - 6th choice	5.41	8	5.54	6	6.88	19.15 **
11th choice or lower	1.71	25	0.74	--	1.71	4.52
7th - 10th choice	1.42	40	1.48	--	1.32	3.51
1st - 3rd choice	91.45	81	92.25	87	74.47	90.00

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 3-6】 Students' Choice Priority to the Department in comparison with P25, P75 & 2021(%)



## IV. Major and Learning

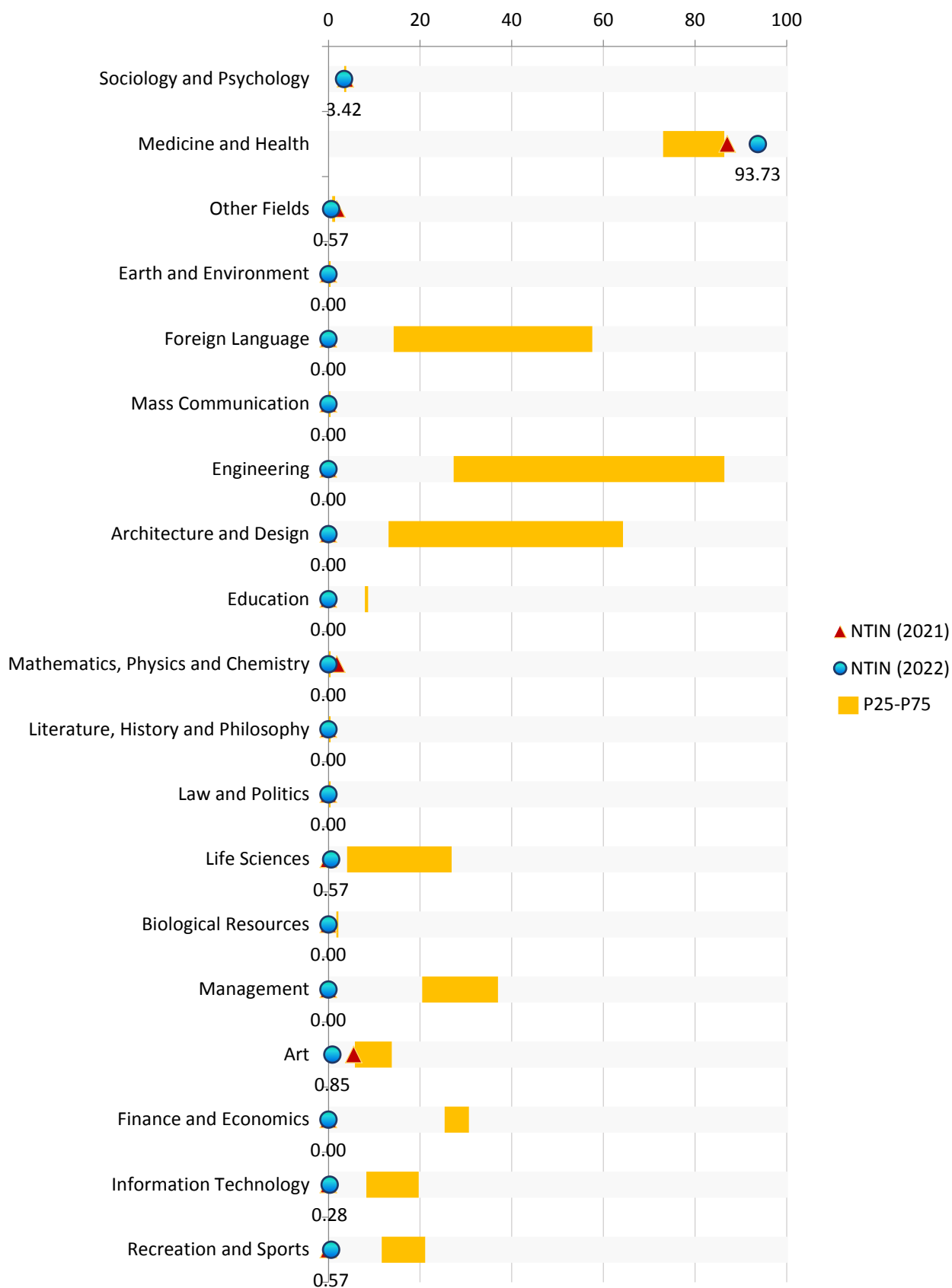
### 1. 【Q15】 Major

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
Sociology and Psychology	3.42	99	3.69	50	3.42	3.42
Medicine and Health	93.73	99	87.08	60	73.06	86.38
Other Fields	0.57	--	1.85	99	0.80	1.43
Earth and Environment	0.00	--	0.00	--	--	--
Foreign Language	0.00	--	0.00	--	14.25 **	57.58 **
Mass Communication	0.00	--	0.00	--	--	--
Engineering	0.00	--	0.00	--	27.33 **	86.46 **
Architecture and Design	0.00	--	0.00	--	13.11 **	64.29 **
Education	0.00	--	0.00	--	7.97 **	8.69 **
Mathematics, Physics and Chemistry	0.00	--	1.85	1	--	--
Literature, History and Philosophy	0.00	--	0.00	--	--	--
Law and Politics	0.00	--	0.00	--	--	--
Life Sciences	0.57	--	0.00	--	4.06	26.91 **
Biological Resources	0.00	--	0.00	--	1.72	1.72
Management	0.00	--	0.00	--	20.43 **	37.03 **
Art	0.85	--	5.54	75	5.77	13.83 **
Finance and Economics	0.00	--	0.00	--	25.37 **	30.68 **
Information Technology	0.28	--	0.00	--	8.26 **	19.73 **
Recreation and Sports	0.57	--	0.00	--	11.62 **	21.16 **

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【 Figure 4-1 】 Students' Major in comparison with P25, P75 & 2021(%)

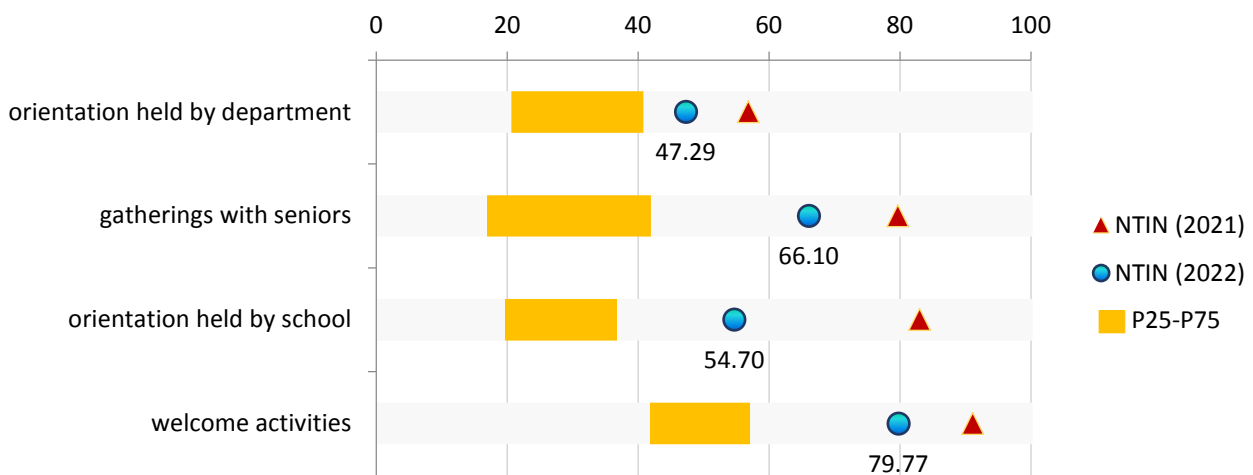
## 2. 【Q16】Activities Held for Freshmen

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
orientation held by department	47.29	87	56.83	87	20.65 **	40.85
gatherings with seniors	66.10	92	79.70	99	16.89 **	41.94 *
orientation held by school	54.70	99	83.03	99	19.67 **	36.75
welcome activities	79.77	99	91.14	99	41.81 **	57.14

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 4-2】Activities Held for Freshmen in comparison with P25, P75 & 2021(%)

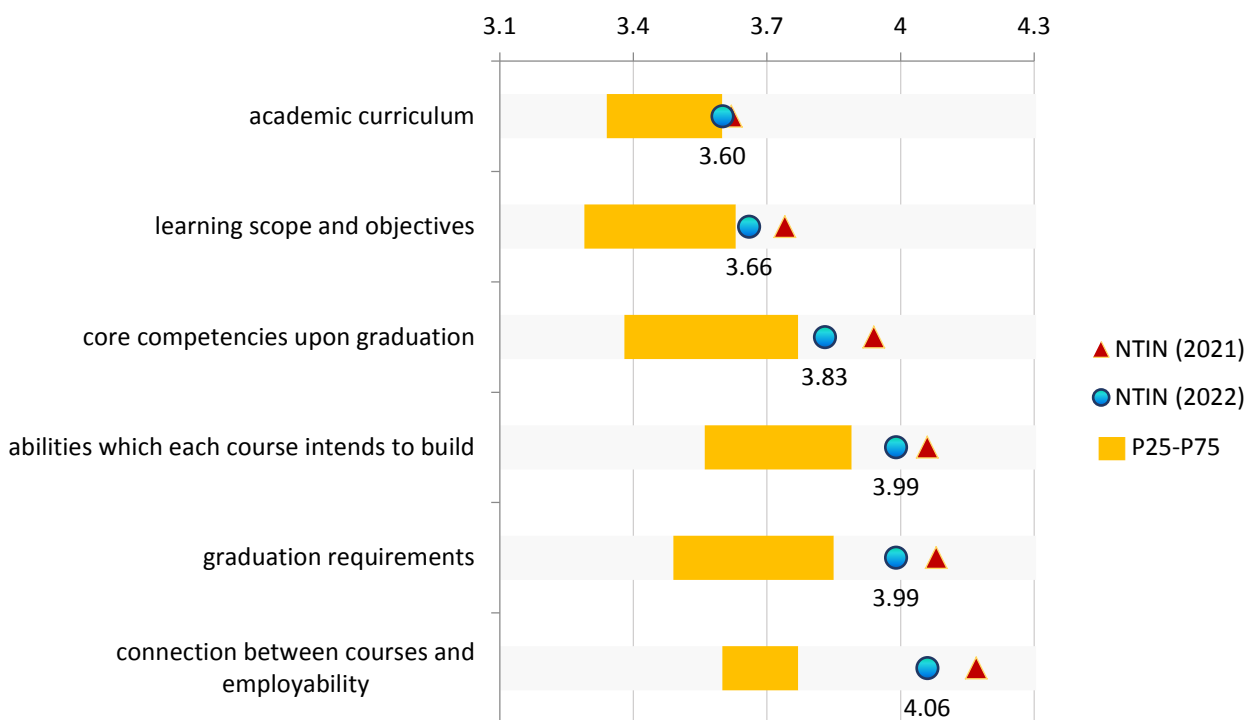
### 3. 【Q17】 Understanding towards the Department

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
academic curriculum	3.60	75	3.62	75	3.34	3.60
learning scope and objectives	3.66	88	3.74	88	3.29 *	3.63
core competencies upon graduation	3.83	88	3.94	94	3.38 **	3.77
abilities which each course intends to build	3.99	99	4.06	94	3.56 **	3.89
graduation requirements	3.99	99	4.08	99	3.49 **	3.85
connection between courses and employability	4.06	99	4.17	99	3.60 **	3.77

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 4-3】 Students' Understanding towards the Department in comparison with P25, P75 & 2021

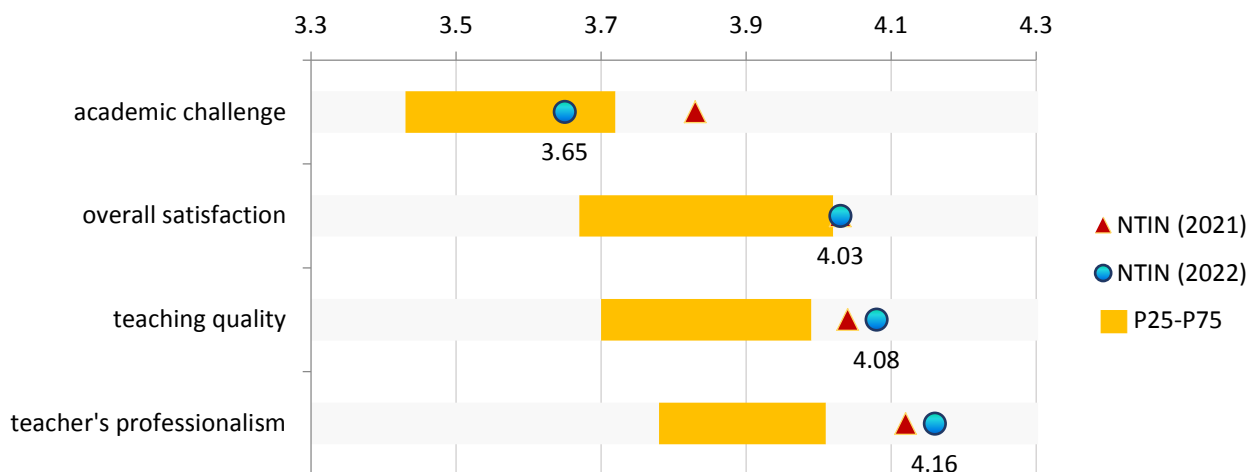
#### 4. 【Q18】 Satisfaction with Overall Curriculum

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
academic challenge	3.65	62	3.83	88	3.43 *	3.72
overall satisfaction	4.03	93	4.03	94	3.67 **	4.02
teaching quality	4.08	94	4.04	88	3.70 **	3.99
teacher's professionalism	4.16	94	4.12	94	3.78 **	4.01

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【 Figure 4-4 】 Students' Satisfaction with Overall Curriculum in comparison with P25, P75 & 2021

## V. School Resources

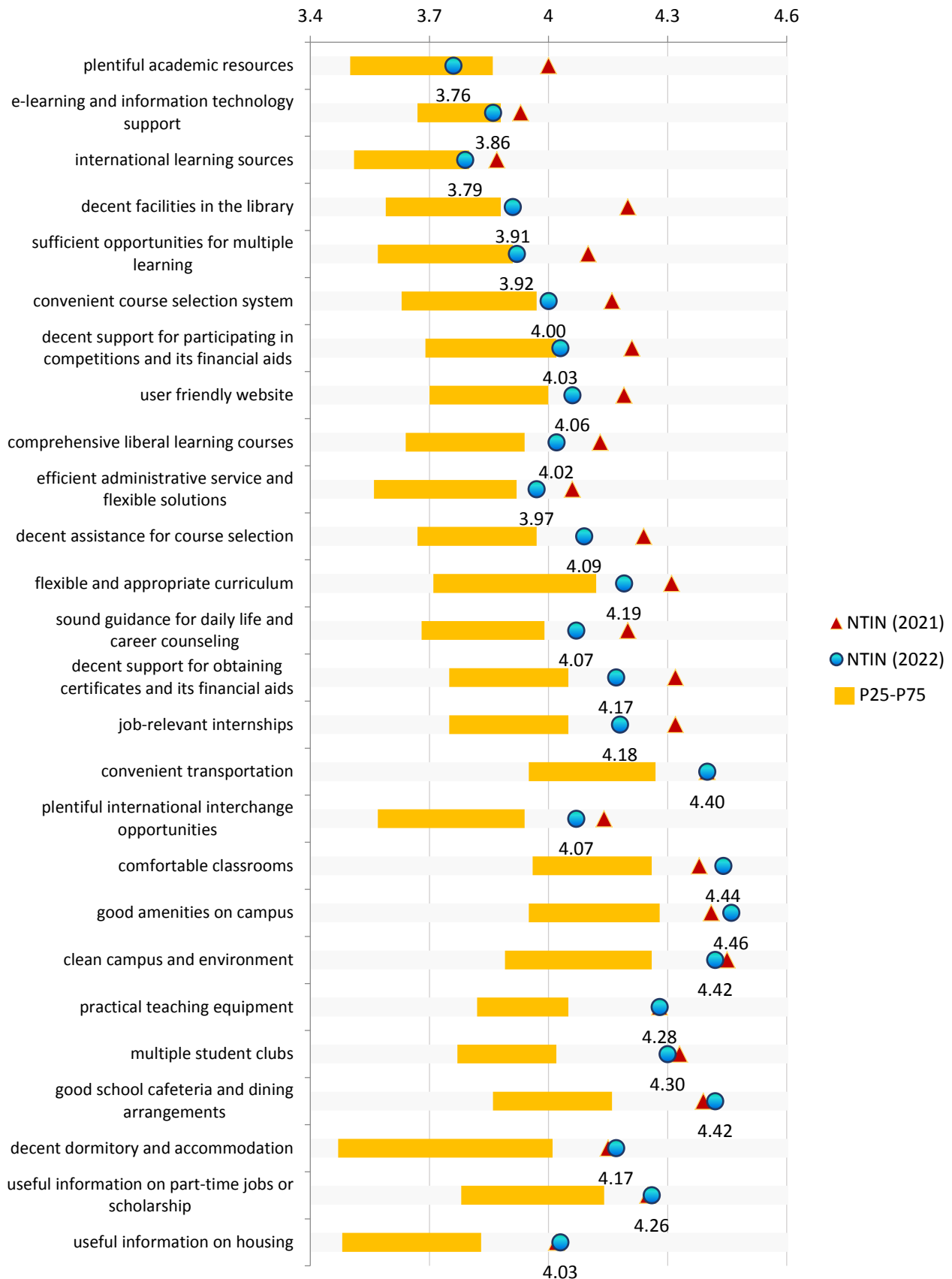
### 1. 【Q19】Expectation for Resources and Services Provided by the School

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
plentiful academic resources	3.76	62	4.00	94	3.50	3.86
e-learning and information technology support	3.86	69	3.93	75	3.67	3.88
international learning sources	3.79	69	3.87	75	3.51	3.80
decent facilities in the library	3.91	81	4.20	94	3.59 **	3.88
sufficient opportunities for multiple learning	3.92	81	4.10	94	3.57 *	3.91
convenient course selection system	4.00	81	4.16	94	3.63 **	3.97
decent support for participating in competitions and its financial aids	4.03	88	4.21	94	3.69 **	4.02
user friendly website	4.06	88	4.19	94	3.70 **	4.00
comprehensive liberal learning courses	4.02	88	4.13	94	3.64	3.94
efficient administrative service and flexible solutions	3.97	88	4.06	94	3.56 **	3.92
decent assistance for course selection	4.09	88	4.24	94	3.67 **	3.97
flexible and appropriate curriculum	4.19	88	4.31	94	3.71 **	4.12
sound guidance for daily life and career counseling	4.07	94	4.20	94	3.68 *	3.99
decent support for obtaining certificates and its financial aids	4.17	94	4.32	94	3.75 **	4.05
job-relevant internships	4.18	94	4.32	94	3.75 **	4.05
convenient transportation	4.40	94	4.40	94	3.95 *	4.27
plentiful international interchange opportunities	4.07	94	4.14	94	3.57 **	3.94
comfortable classrooms	4.44	94	4.38	88	3.96 **	4.26
good amenities on campus	4.46	94	4.41	94	3.95 **	4.28
clean campus and environment	4.42	94	4.45	94	3.89 **	4.26
practical teaching equipment	4.28	94	4.28	88	3.82 **	4.05 **
multiple student clubs	4.30	94	4.33	94	3.77 *	4.02 **
good school cafeteria and dining arrangements	4.42	94	4.39	94	3.86 **	4.16 **
decent dormitory and accommodation	4.17	94	4.15	81	3.47 **	4.01
useful information on part-time jobs or scholarship	4.26	99	4.25	94	3.78 **	4.14
useful information on housing	4.03	99	4.02	94	3.48 **	3.83

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 5-1】 Students' Expectation for Resources and Services Provided by the School in comparison with P25, P75 & 2021





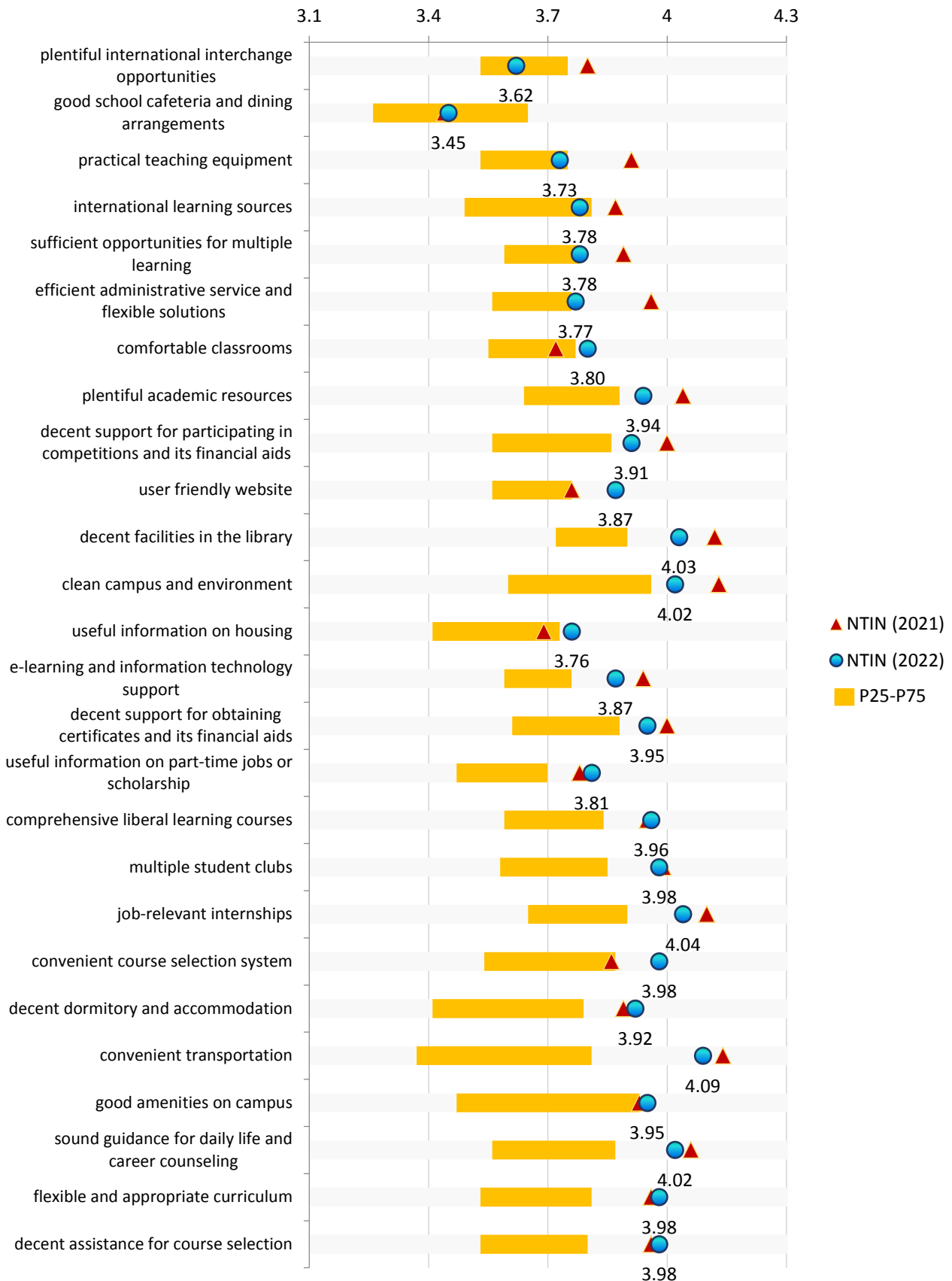
## 2. 【Q20】 Satisfaction with Resources and Services Provided by the School

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
plentiful international interchange opportunities	3.62	56	3.80	62	3.53	3.75
good school cafeteria and dining arrangements	3.45	56	3.44	31	3.26	3.65
practical teaching equipment	3.73	62	3.91	88	3.53	3.75
international learning sources	3.78	69	3.87	94	3.49 *	3.81
sufficient opportunities for multiple learning	3.78	75	3.89	94	3.59	3.78
efficient administrative service and flexible solutions	3.77	81	3.96	94	3.56	3.76
comfortable classrooms	3.80	88	3.72	44	3.55 **	3.77
plentiful academic resources	3.94	88	4.04	94	3.64 **	3.88
decent support for participating in competitions and its financial aids	3.91	88	4.00	94	3.56	3.86
user friendly website	3.87	88	3.76	50	3.56	3.76
decent facilities in the library	4.03	88	4.12	81	3.72 *	3.90
clean campus and environment	4.02	88	4.13	94	3.60 *	3.96
useful information on housing	3.76	94	3.69	62	3.41 *	3.73
e-learning and information technology support	3.87	94	3.94	94	3.59	3.76
decent support for obtaining certificates and its financial aids	3.95	94	4.00	94	3.61 *	3.88
useful information on part-time jobs or scholarship	3.81	94	3.78	88	3.47 **	3.70
comprehensive liberal learning courses	3.96	94	3.95	94	3.59 **	3.84
multiple student clubs	3.98	94	3.99	94	3.58 **	3.85
job-relevant internships	4.04	94	4.10	94	3.65 **	3.90
convenient course selection system	3.98	94	3.86	56	3.54 *	3.87
decent dormitory and accommodation	3.92	94	3.89	94	3.41 **	3.79
convenient transportation	4.09	94	4.14	94	3.37 **	3.81 **
good amenities on campus	3.95	99	3.93	75	3.47 **	3.93
sound guidance for daily life and career counseling	4.02	99	4.06	88	3.56 **	3.87
flexible and appropriate curriculum	3.98	99	3.96	88	3.53 **	3.81
decent assistance for course selection	3.98	99	3.96	94	3.53 **	3.80

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 5-2】 Students' Satisfaction with Resources and Services Provided by the School in comparison with P25, P75 & 2021

## VI. Learning Experience

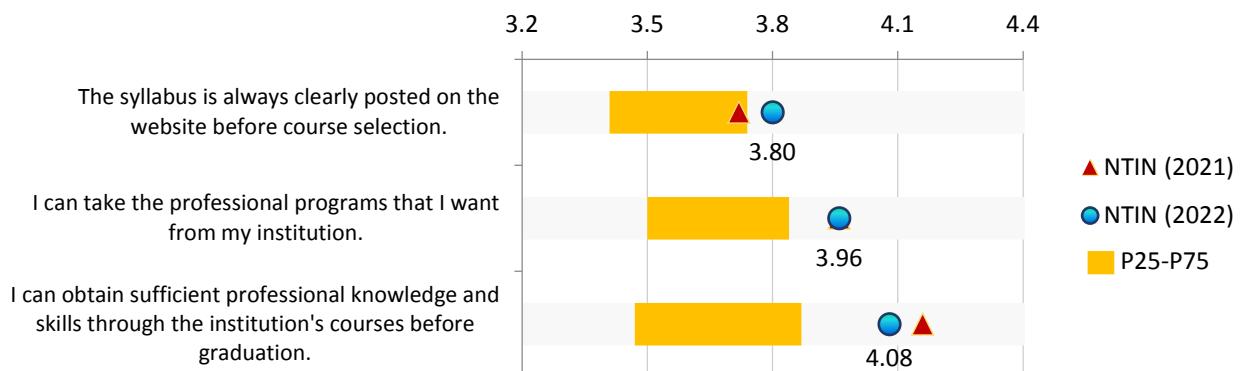
### 1. 【Q21】 Recognition of Curriculum Arrangement

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
The syllabus is always clearly posted on the website before course selection.	3.80	88	3.72	81	3.41 **	3.74
I can take the professional programs that I want from my institution.	3.96	99	3.96	94	3.50 *	3.84
I can obtain sufficient professional knowledge and skills through the institution's courses before graduation.	4.08	99	4.16	99	3.47 **	3.87 **

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 6-1】 Students' Recognition of Curriculum Arrangement in comparison with P25, P75 & 2021

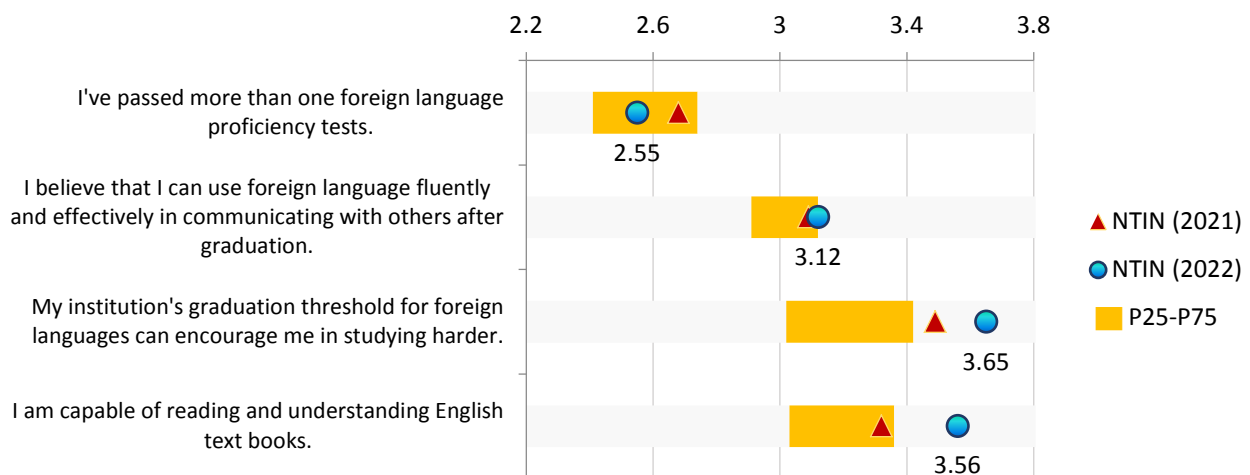
## 2. 【Q22】 Recognition of Foreign Language Competency

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
I've passed more than one foreign language proficiency tests.	2.55	44	2.68	62	2.41	2.74
I believe that I can use foreign language fluently and effectively in communicating with others after graduation.	3.12	75	3.09	50	2.91	3.12
My institution's graduation threshold for foreign languages can encourage me in studying harder.	3.65	88	3.49	81	3.02 **	3.42
I am capable of reading and understanding English text books.	3.56	94	3.32	94	3.03 **	3.36

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 6-2】 Students' Recognition of Foreign Language Competency in comparison with P25, P75 & 2021



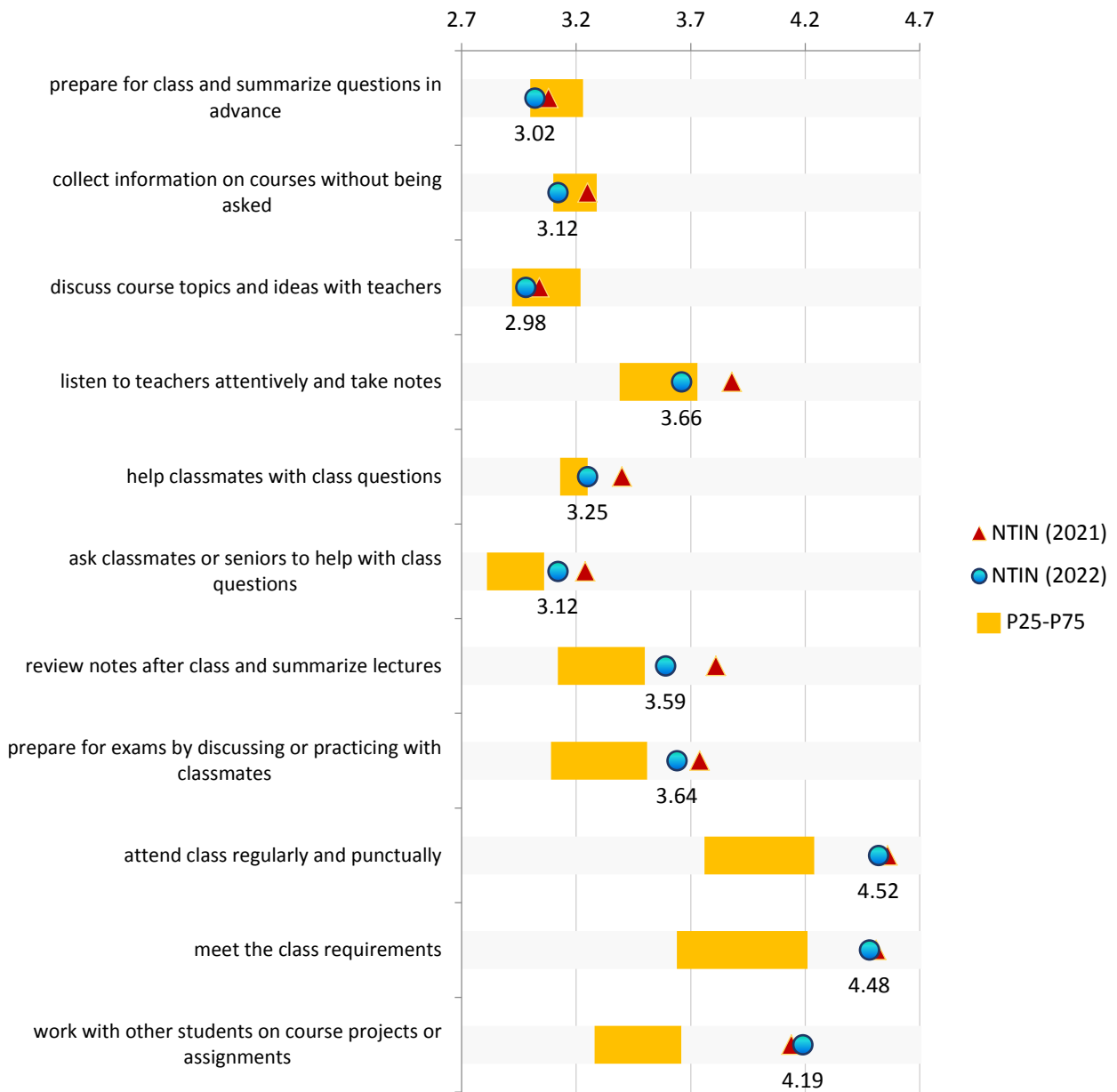
### 3. 【Q23】 Frequency of Learning Activities

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
prepare for class and summarize questions in advance	3.02	31	3.08	12	3.00	3.23 *
collect information on courses without being asked	3.12	31	3.25	50	3.10	3.29
discuss course topics and ideas with teachers	2.98	44	3.04	25	2.92	3.22
listen to teachers attentively and take notes	3.66	56	3.88	94	3.39	3.73
help classmates with class questions	3.25	75	3.40	75	3.13	3.25
ask classmates or seniors to help with class questions	3.12	81	3.24	94	2.81	3.06
review notes after class and summarize lectures	3.59	81	3.81	94	3.12 **	3.50
prepare for exams by discussing or practicing with classmates	3.64	94	3.74	99	3.09 **	3.51
attend class regularly and punctually	4.52	94	4.56	99	3.76 **	4.24 **
meet the class requirements	4.48	94	4.51	99	3.64 **	4.21 *
work with other students on course projects or assignments	4.19	99	4.14	99	3.28 **	3.66 **

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【 Figure 6-3 】 Frequency of Learning Activities in comparison with P25, P75 & 2021



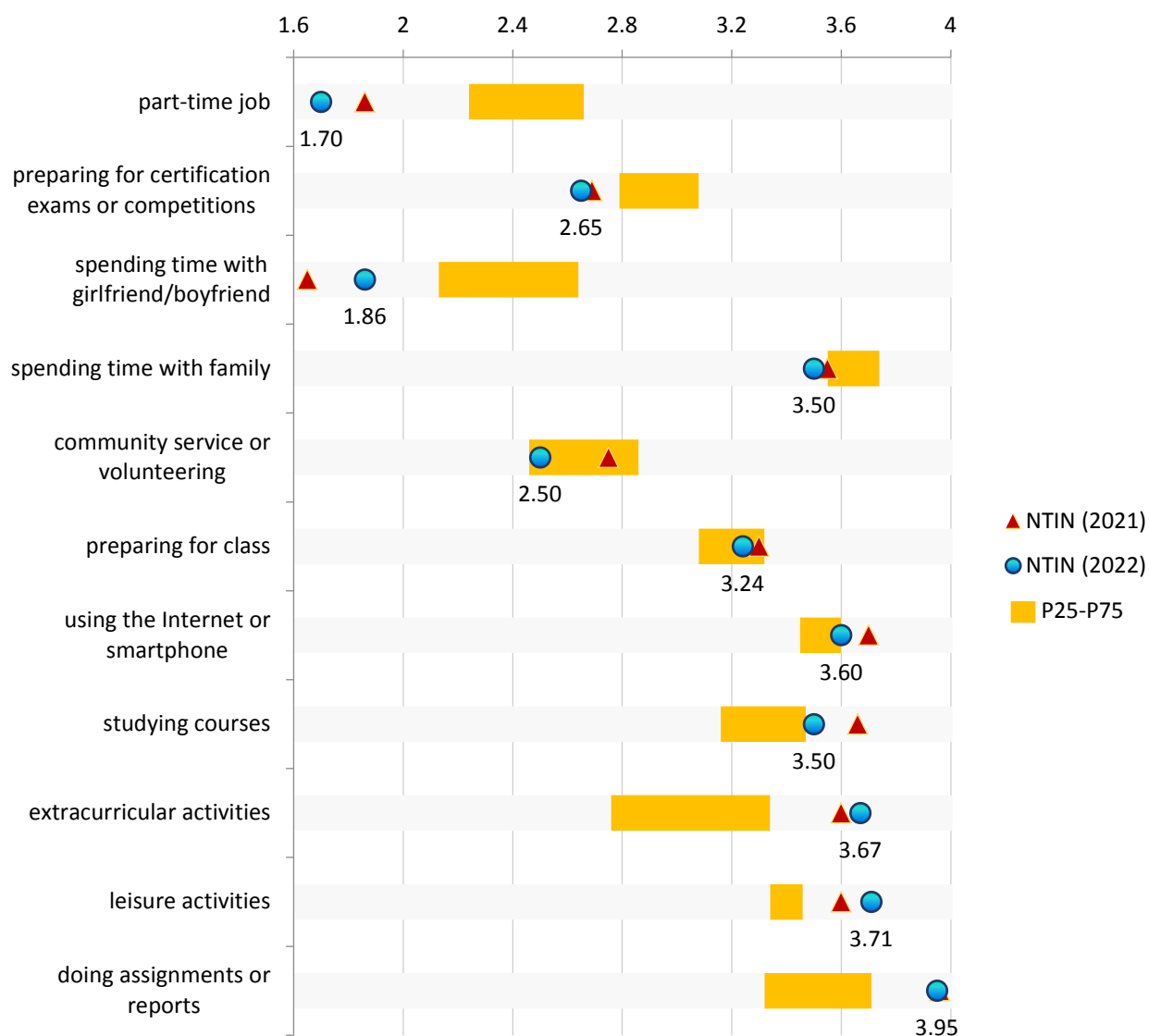
#### 4. 【Q24】Average Engagement on Particular Activity

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
part-time job	1.70	6	1.86	1	2.24 **	2.66 **
preparing for certification exams or competitions	2.65	6	2.69	1	2.79	3.08
spending time with girlfriend/boyfriend	1.86	12	1.65	1	2.13	2.64 **
spending time with family	3.50	12	3.55	25	3.55	3.74
community service or volunteering	2.50	31	2.75	50	2.46	2.86
preparing for class	3.24	56	3.30	50	3.08	3.32
using the Internet or smartphone	3.60	75	3.70	99	3.45	3.60
studying courses	3.50	94	3.66	94	3.16	3.47
extracurricular activities	3.67	94	3.60	88	2.76 **	3.34 **
leisure activities	3.71	99	3.60	81	3.34 *	3.46 **
doing assignments or reports	3.95	99	3.96	99	3.32 **	3.71 **

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 6-4】 Students' Average Engagement on Particular Activity in comparison with P25, P75 & 2021



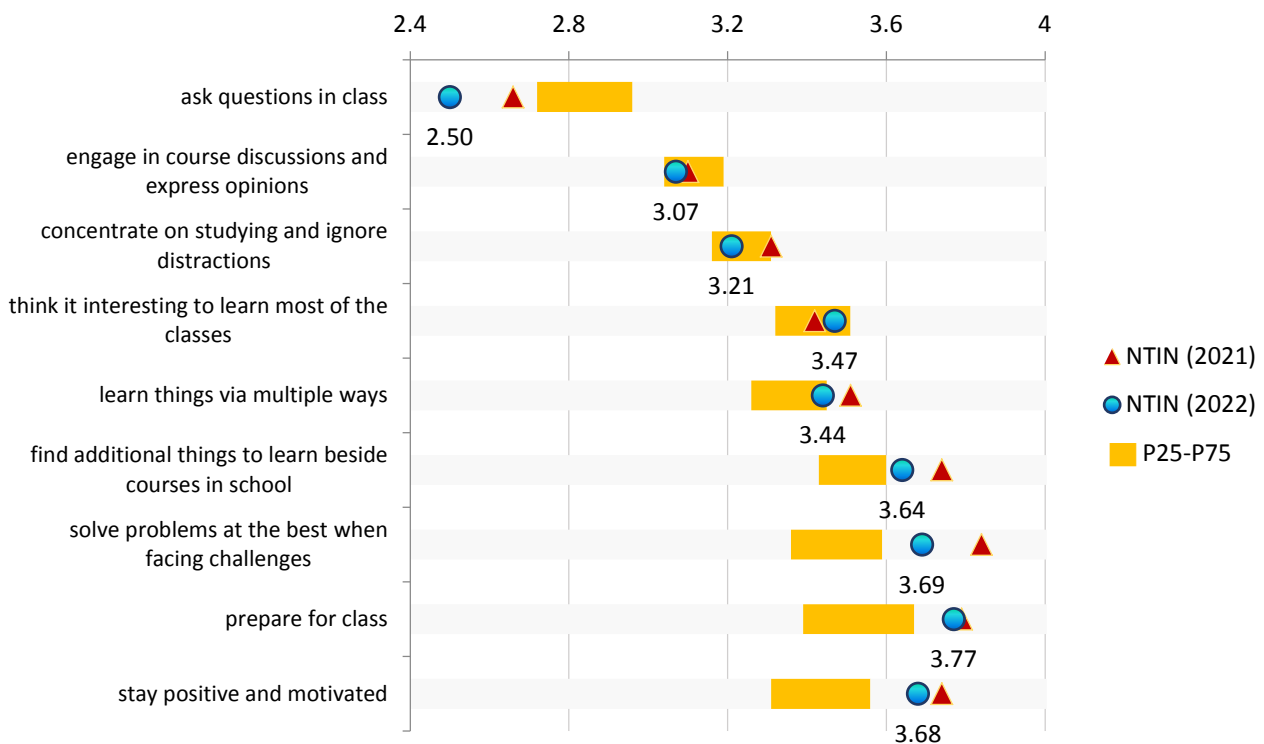
## 5. 【Q25】 Recognition of Learning Attitude

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
ask questions in class	2.50	1	2.66	6	2.72 *	2.96 **
engage in course discussions and express opinions	3.07	38	3.10	44	3.04	3.19
concentrate on studying and ignore distractions	3.21	50	3.31	31	3.16	3.31
think it interesting to learn most of the classes	3.47	69	3.42	50	3.32	3.51
learn things via multiple ways	3.44	69	3.51	75	3.26	3.45
find additional things to learn beside courses in school	3.64	88	3.74	94	3.43	3.60
solve problems at the best when facing challenges	3.69	88	3.84	94	3.36 *	3.59
prepare for class	3.77	88	3.79	94	3.39	3.67
stay positive and motivated	3.68	94	3.74	81	3.31 **	3.56

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 6-5】 Students' Recognition of Learning Attitude in comparison with P25, P75 & 2021

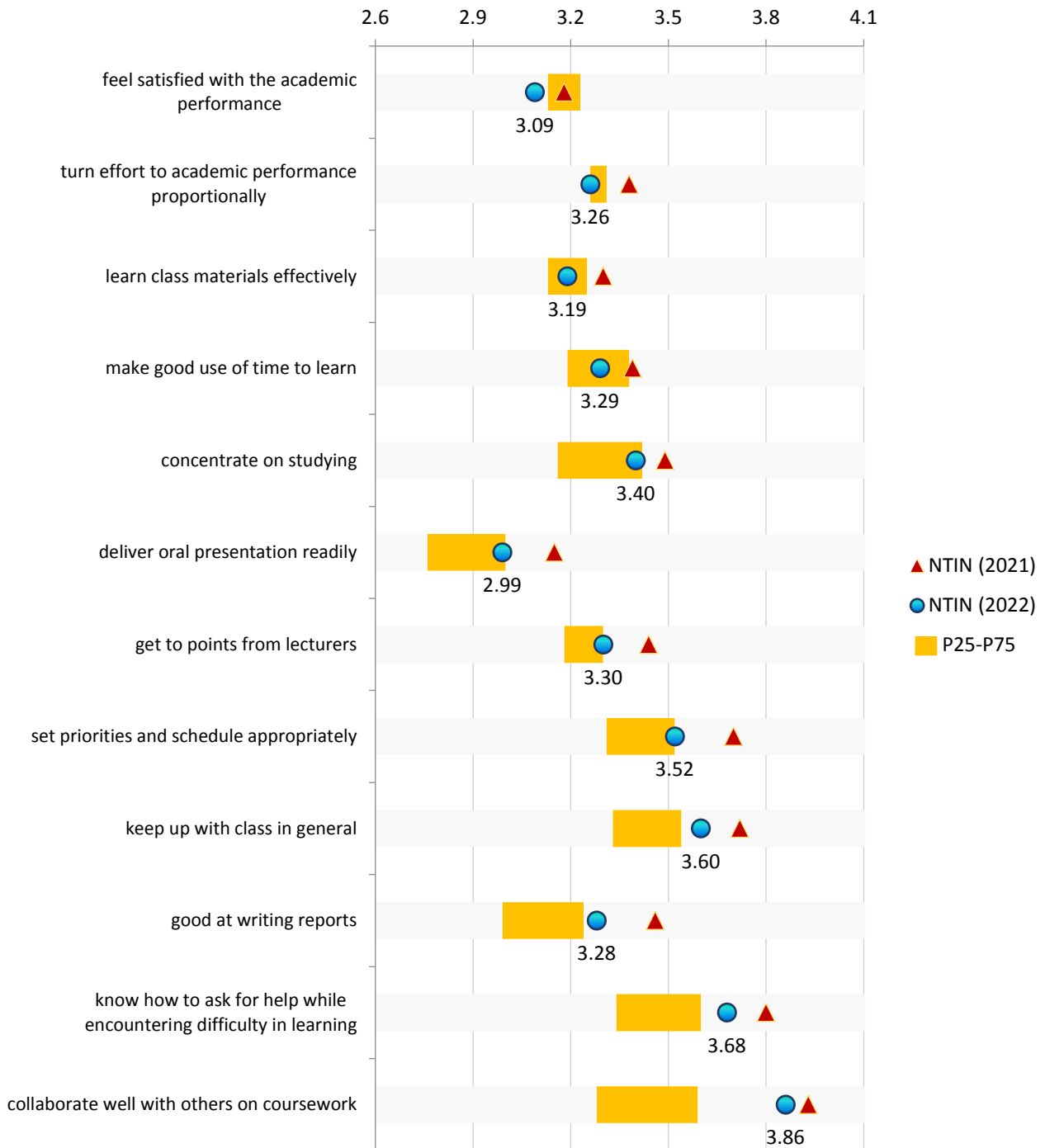
## 6. 【Q26】 Recognition of Curriculum Learning

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
feel satisfied with the academic performance	3.09	12	3.18	25	3.13	3.23
turn effort to academic performance proportionally	3.26	25	3.38	56	3.26	3.31
learn class materials effectively	3.19	44	3.30	38	3.13	3.25
make good use of time to learn	3.29	50	3.39	31	3.19	3.38
concentrate on studying	3.40	69	3.49	75	3.16	3.42
deliver oral presentation readily	2.99	69	3.15	81	2.76 *	3.00
get to points from lecturers	3.30	75	3.44	75	3.18	3.30
set priorities and schedule appropriately	3.52	75	3.70	94	3.31	3.52
keep up with class in general	3.60	81	3.72	99	3.33	3.54
good at writing reports	3.28	88	3.46	88	2.99	3.24
know how to ask for help while encountering difficulty in learning	3.68	88	3.80	94	3.34 *	3.60
collaborate well with others on coursework	3.86	99	3.93	99	3.28 **	3.59

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【 Figure 6-6 】 Students' Recognition of Curriculum Learning in comparison with P25, P75 & 2021



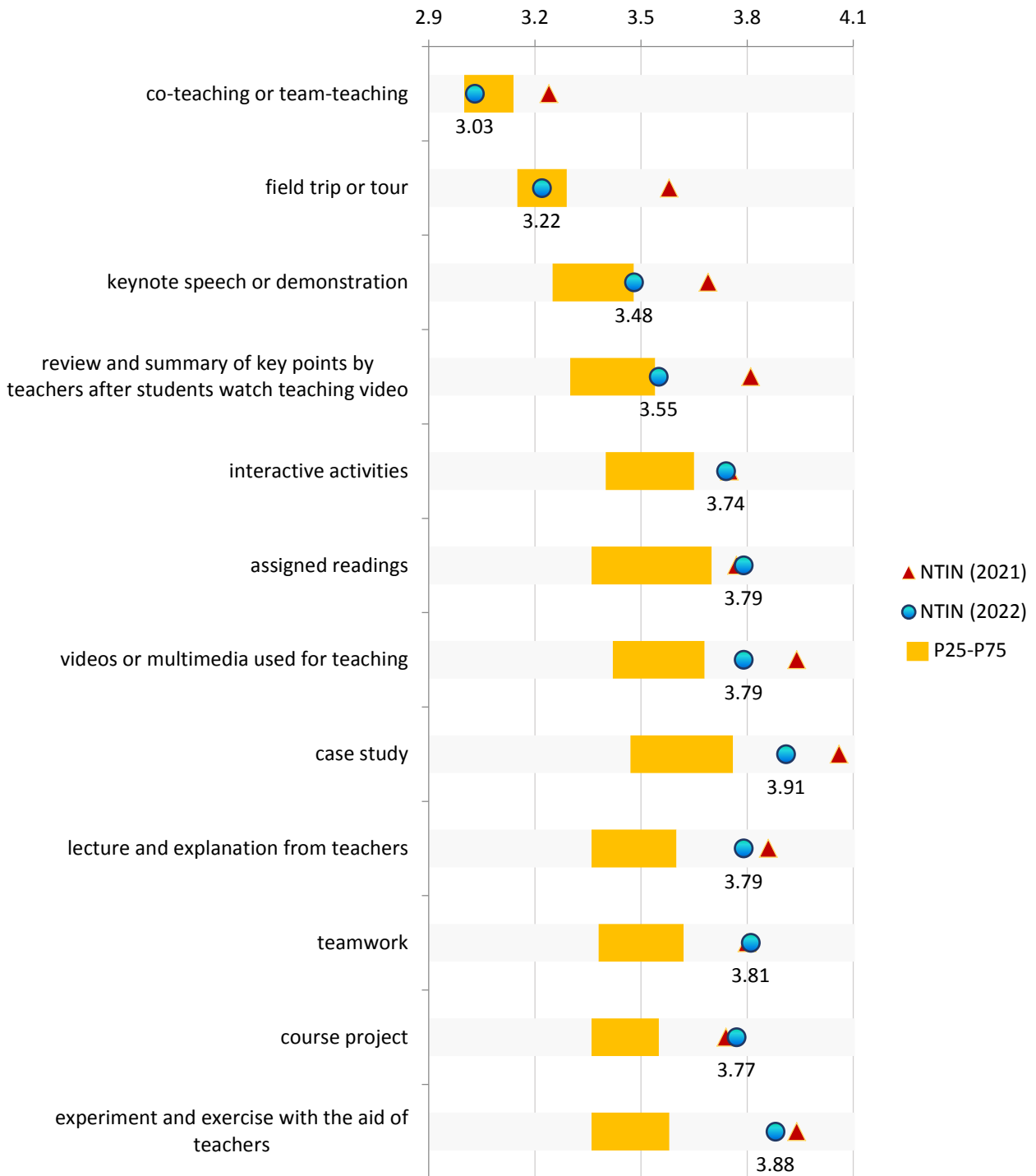
## 7. 【Q27】 Recognition of Teaching Methods

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
co-teaching or team-teaching	3.03	44	3.24	69	3.00	3.14
field trip or tour	3.22	44	3.58	94	3.15	3.29
keynote speech or demonstration	3.48	75	3.69	99	3.25	3.48
review and summary of key points by teachers after students watch teaching video	3.55	88	3.81	99	3.30 *	3.54
interactive activities	3.74	94	3.75	94	3.40 *	3.65
assigned readings	3.79	94	3.77	94	3.36 **	3.70
videos or multimedia used for teaching	3.79	99	3.94	99	3.42 **	3.68
case study	3.91	99	4.06	99	3.47 **	3.76 *
lecture and explanation from teachers	3.79	99	3.86	94	3.36 **	3.60 **
teamwork	3.81	99	3.80	94	3.38 **	3.62
course project	3.77	99	3.74	94	3.36 *	3.55 **
experiment and exercise with the aid of teachers	3.88	99	3.94	99	3.36 **	3.58 **

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 6-7】 Students' Recognition of Teaching Methods in comparison with P25, P75 & 2021

## VII. Self-Evaluation

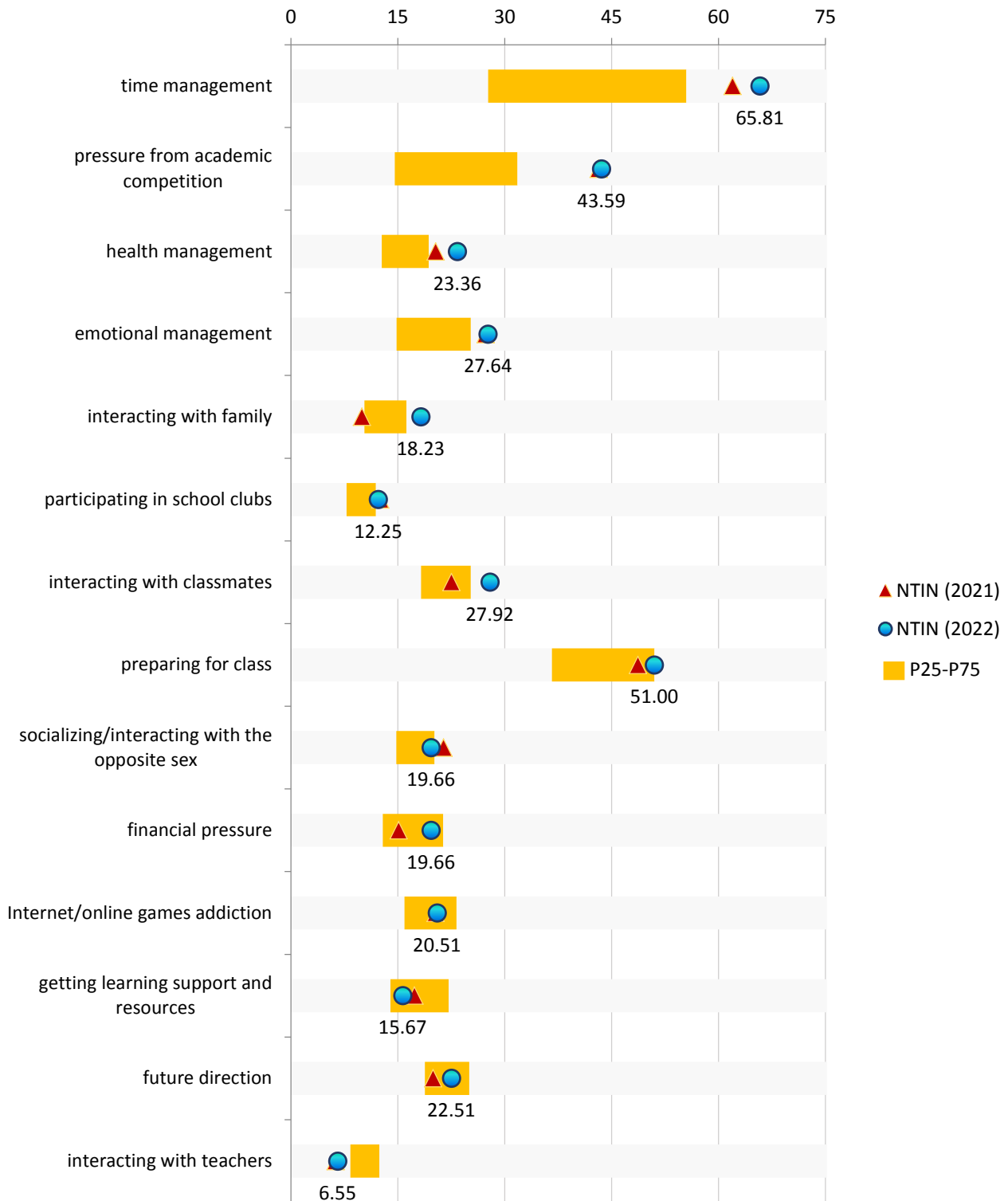
### 1. 【Q28】 Troublesome Issues

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
time management	65.81	99	61.99	99	27.66 **	55.49
pressure from academic competition	43.59	92	43.17	87	14.55 **	31.77
health management	23.36	91	20.30	80	12.74	19.33
emotional management	27.64	86	27.31	87	14.82 *	25.24
interacting with family	18.23	84	9.96	25	10.28	16.21
participating in school clubs	12.25	80	12.55	73	7.80	11.91
interacting with classmates	27.92	80	22.51	66	18.25	25.22
preparing for class	51.00	75	48.71	56	36.61	51.00
socializing/interacting with the opposite sex	19.66	66	21.40	81	14.76	20.13
financial pressure	19.66	60	15.13	37	12.88	21.37
Internet/online games addiction	20.51	58	20.30	68	15.91	23.24
getting learning support and resources	15.67	46	17.34	50	13.95	22.10
future direction	22.51	46	19.93	37	18.79	25.01
interacting with teachers	6.55	1	6.27	12	8.34	12.42

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 7-1】 Students' Troublesome Issues in comparison with P25, P75 & 2021(%)

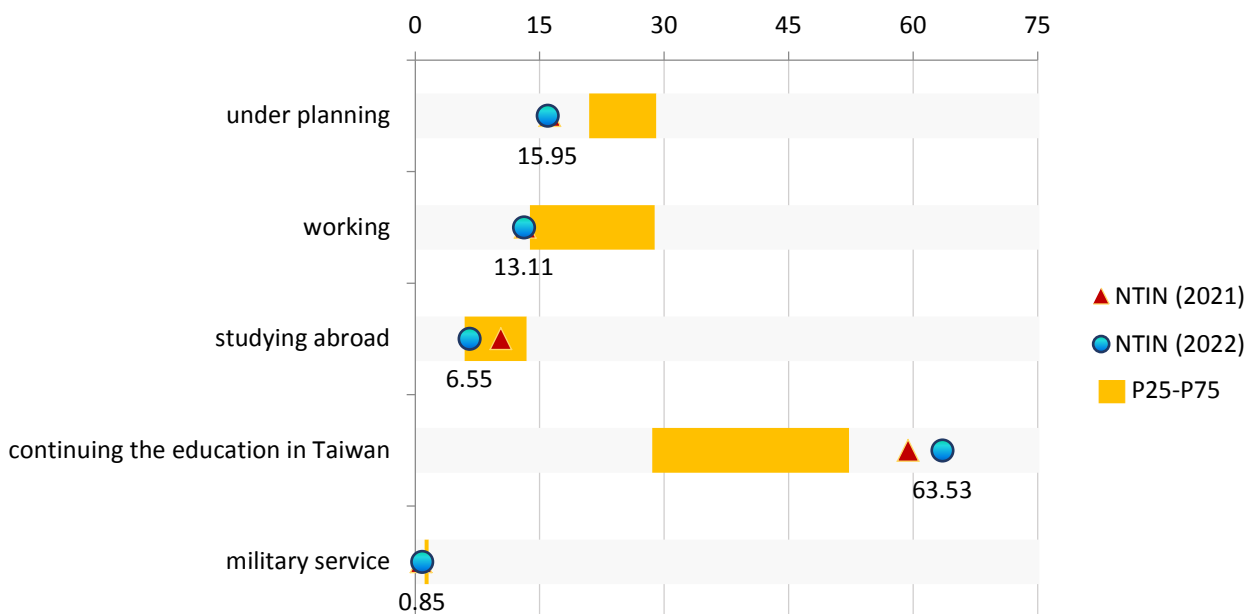
## 2. 【Q29】Key Focus for Career and Life Planning

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
under planning	15.95	1	16.24	31	20.97	29.07
working	13.11	20	13.28	18	13.81	28.88 *
studying abroad	6.55	30	10.33	61	5.97	13.43
continuing the education in Taiwan	63.53	99	59.41	93	28.57 **	52.27
military service	0.85	--	0.74	--	1.15	1.63

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 7-2】Students' Key Focus for Career and Life Planning in comparison with P25, P75 & 2021(%)



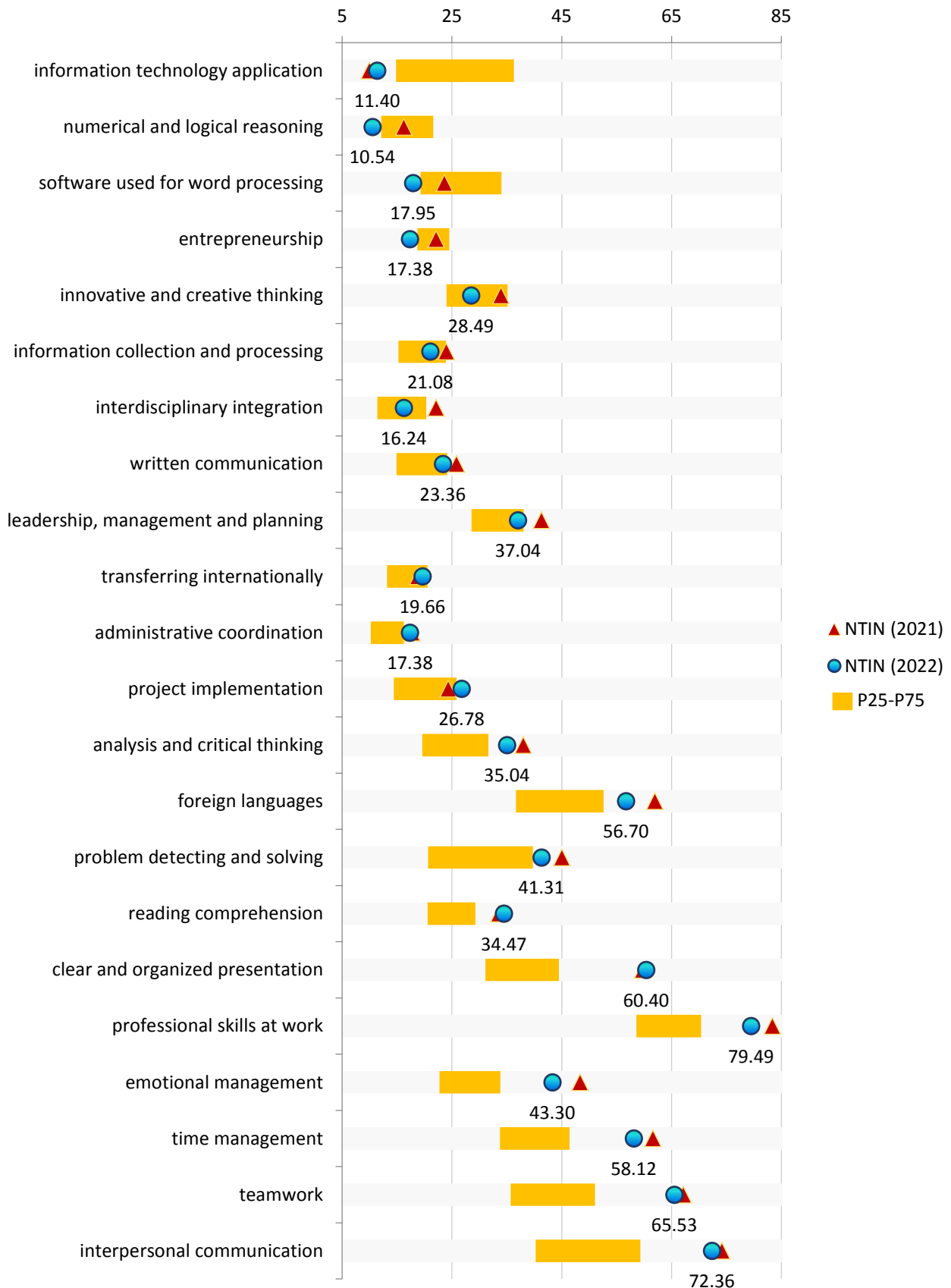
### 3. 【Q30】 Learning Focuses during School Years

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
information technology application	11.40	7	9.96	6	14.80	36.32 **
numerical and logical reasoning	10.54	7	16.24	50	12.12	21.61
software used for word processing	17.95	18	23.62	50	19.29	34.04 *
entrepreneurship	17.38	20	22.14	56	18.71	24.54
innovative and creative thinking	28.49	37	33.95	75	24.00	35.14
information collection and processing	21.08	57	23.99	68	15.25	23.92
interdisciplinary integration	16.24	61	22.14	81	11.42	20.36
written communication	23.36	66	25.83	86	14.89	24.17
leadership, management and planning	37.04	68	41.33	62	28.57	38.08
transferring internationally	19.66	71	18.82	56	13.18	20.55
administrative coordination	17.38	81	17.71	73	10.20	16.26
project implementation	26.78	85	24.35	62	14.40	25.83
analysis and critical thinking	35.04	86	38.01	93	19.59 *	31.68
foreign languages	56.70	86	61.99	75	36.67 *	52.64
problem detecting and solving	41.31	87	45.02	93	20.65 **	39.74
reading comprehension	34.47	93	33.58	68	20.58	29.29
clear and organized presentation	60.40	93	59.78	87	31.10 **	44.47
professional skills at work	79.49	99	83.39	99	58.58	70.42
emotional management	43.30	99	48.34	99	22.73 *	33.84
time management	58.12	99	61.62	99	33.73 *	46.43
teamwork	65.53	99	67.16	99	35.71 **	51.06
interpersonal communication	72.36	99	74.17	93	40.24 **	59.33

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 7-3】Students' Learning Focuses during School Years in comparison with P25, P75 & 2021(%)



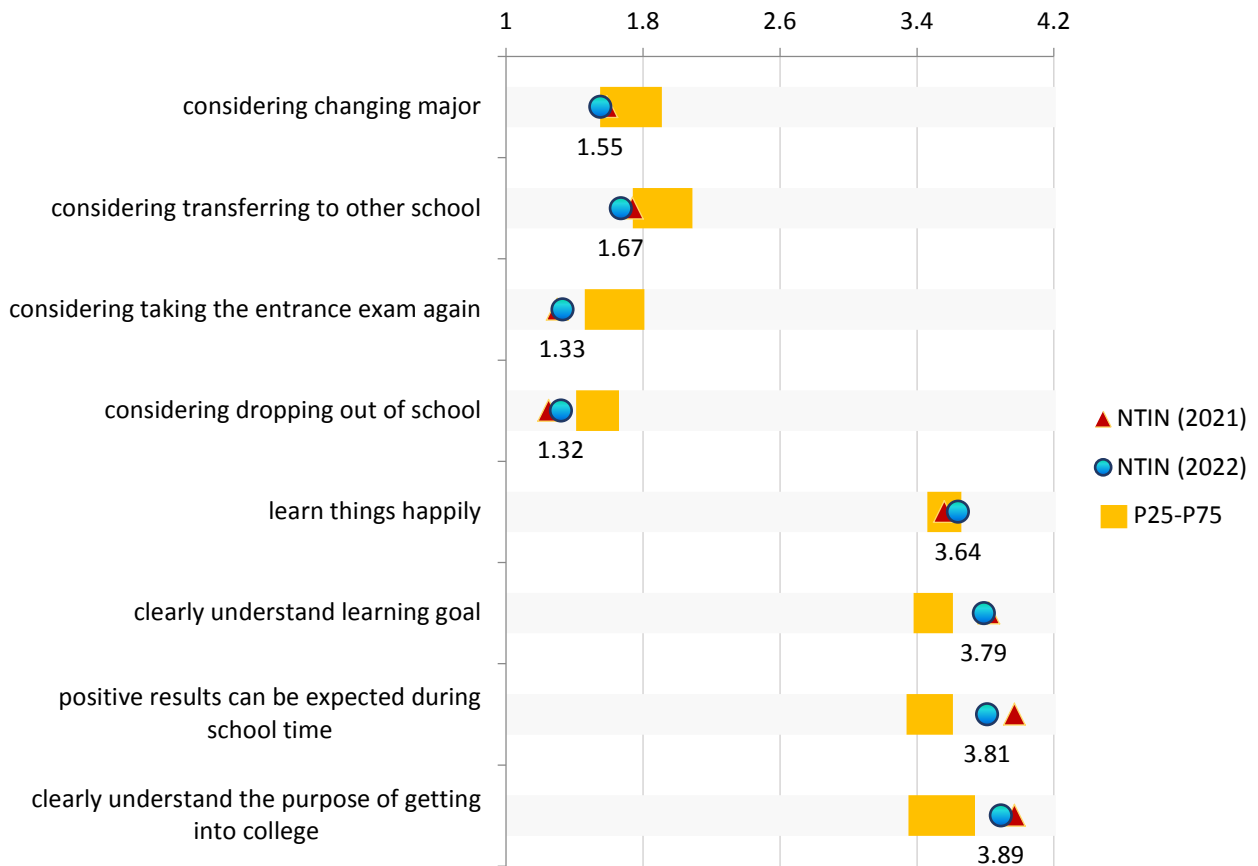
#### 4. 【Q31】 Status of Self-Evaluation

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
considering changing major	1.55	25	1.59	12	1.55	1.91
considering transferring to other school	1.67	12	1.74	25	1.74	2.09
considering taking the entrance exam again	1.33	6	1.30	6	1.46	1.81 **
considering dropping out of school	1.32	6	1.25	6	1.41	1.66 *
learn things happily	3.64	69	3.56	62	3.46	3.66
clearly understand learning goal	3.79	94	3.82	99	3.38 *	3.61 *
positive results can be expected during school time	3.81	99	3.97	99	3.34 **	3.61
clearly understand the purpose of getting into college	3.89	99	3.97	99	3.35 **	3.74

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 7-4】 Students' Status of Self-Evaluation in comparison with P25, P75 & 2021



## VIII. Summary of Descriptive Statistical Analysis

### 1. 【Q19/Q20】 Difference between Actual and Expected Score

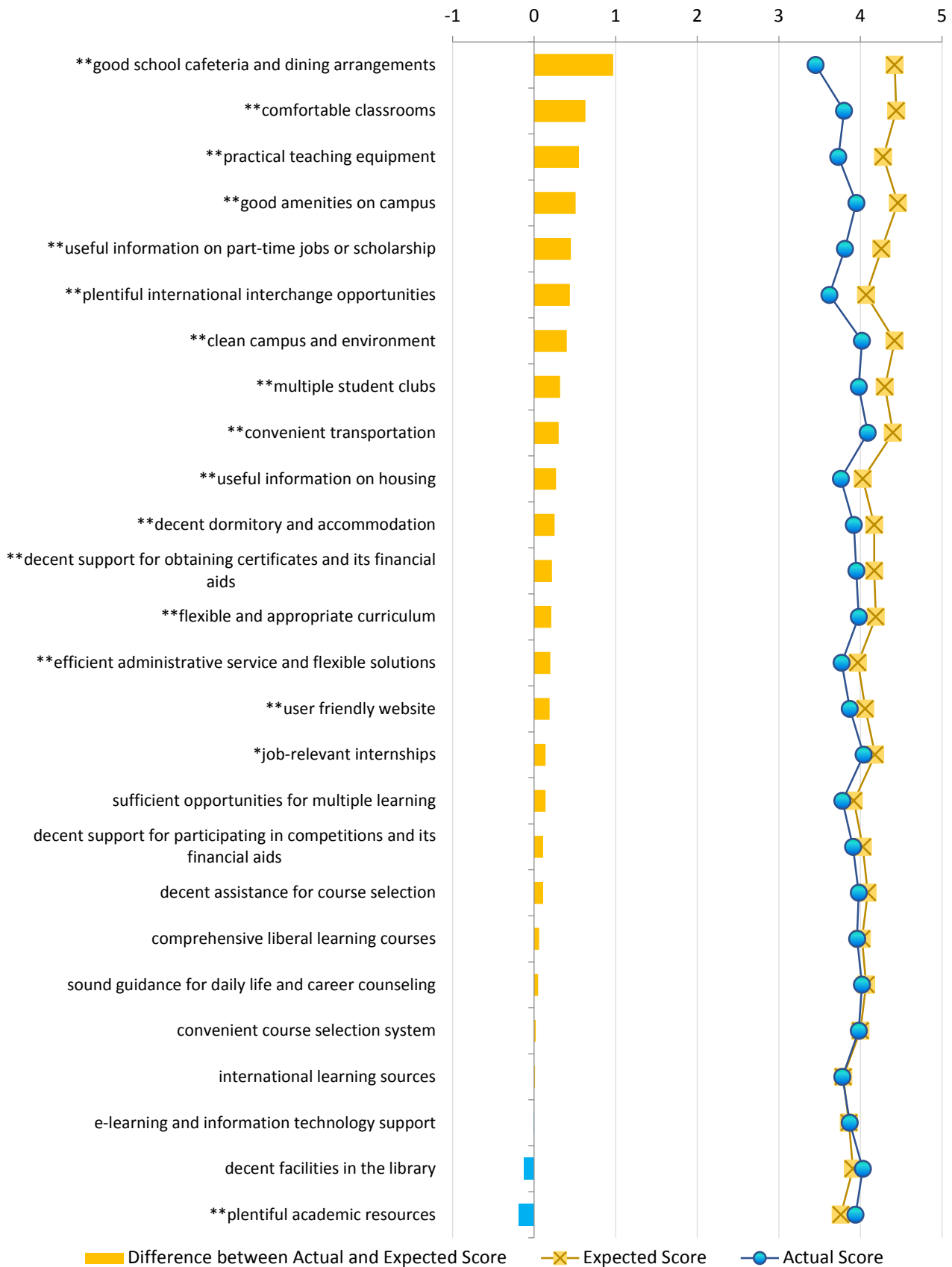
Item	Difference between Actual and Expected Score	Expected Score	Actual Score
**good school cafeteria and dining arrangements	0.97	4.42	3.45
**comfortable classrooms	0.63	4.44	3.80
**practical teaching equipment	0.55	4.28	3.73
**good amenities on campus	0.51	4.46	3.95
**useful information on part-time jobs or scholarship	0.45	4.26	3.81
**plentiful international interchange opportunities	0.44	4.07	3.62
**clean campus and environment	0.40	4.42	4.02
**multiple student clubs	0.32	4.30	3.98
**convenient transportation	0.30	4.40	4.09
**useful information on housing	0.27	4.03	3.76
**decent dormitory and accommodation	0.25	4.17	3.92
**decent support for obtaining certificates and its financial aids	0.22	4.17	3.95
**flexible and appropriate curriculum	0.21	4.19	3.98
**efficient administrative service and flexible solutions	0.20	3.97	3.77
**user friendly website	0.19	4.06	3.87
*job-relevant internships	0.14	4.18	4.04
sufficient opportunities for multiple learning	0.14	3.92	3.78
decent support for participating in competitions and its financial aids	0.11	4.03	3.91
decent assistance for course selection	0.11	4.09	3.98
comprehensive liberal learning courses	0.06	4.02	3.96
sound guidance for daily life and career counseling	0.05	4.07	4.02
convenient course selection system	0.02	4.00	3.98
international learning sources	0.01	3.79	3.78
e-learning and information technology support	-0.01	3.86	3.87
decent facilities in the library	-0.12	3.91	4.03
**plentiful academic resources	-0.19	3.76	3.94

Note 1: The order of items is based on the difference between actual and expected score; the ones with higher figure shall be prioritized. If the "Difference between Actual and Expected Score" is a positive number, it represents that students' actual experience is less than expectation; if it is a negative number, it represents that students' actual experience exceeds expectation.

Note 2: "\*" represents that two values have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .

Note 3: "Expected Score" is between 0 to 5, evaluating students' expectation level about the resources and services provided by the institution.

Note 4: "Actual Score" is between 0 to 5, evaluating students' actual experience about the resources and services provided by the institution.



【Figure 8-1】 Difference between Actual and Expected Score of the Resources Provided by the School

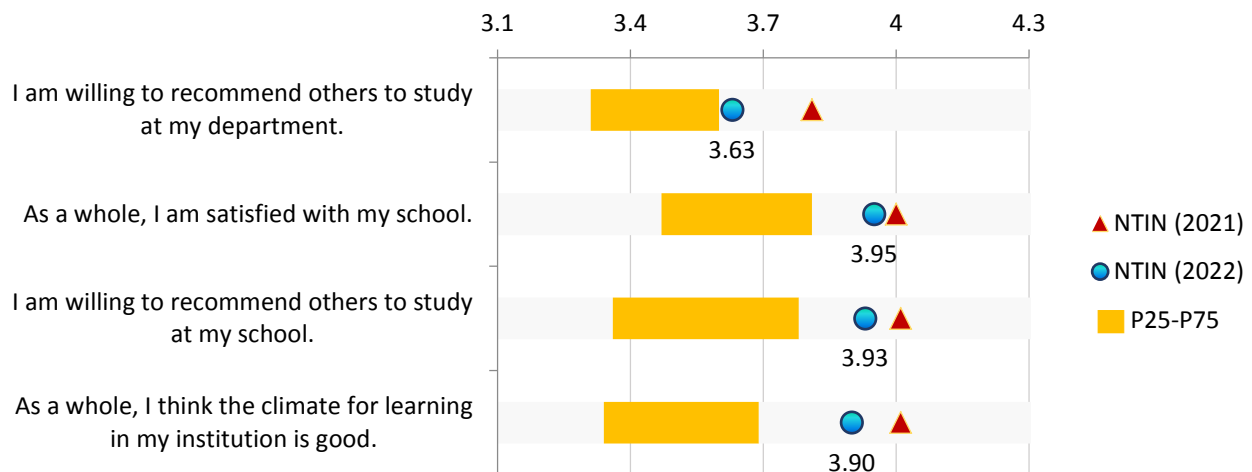
## 2. 【Q32】 Recognition of Overall Situation

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Average	Percentile	Average	Percentile		
I am willing to recommend others to study at my department.	3.63	81	3.81	88	3.31	3.60
As a whole, I am satisfied with my school.	3.95	94	4.00	88	3.47 **	3.81
I am willing to recommend others to study at my school.	3.93	94	4.01	94	3.36 **	3.78
As a whole, I think the climate for learning in my institution is good.	3.90	94	4.01	88	3.34 **	3.69 *

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 8-2】 Students' Recognition of Overall Situation in comparison with P25, P75 & 2021

## IX. Cross Analysis

### 1. 【Q2\*Q10】 Students' (with different status) Ways of Obtaining Information on the School

#### (1) Local student

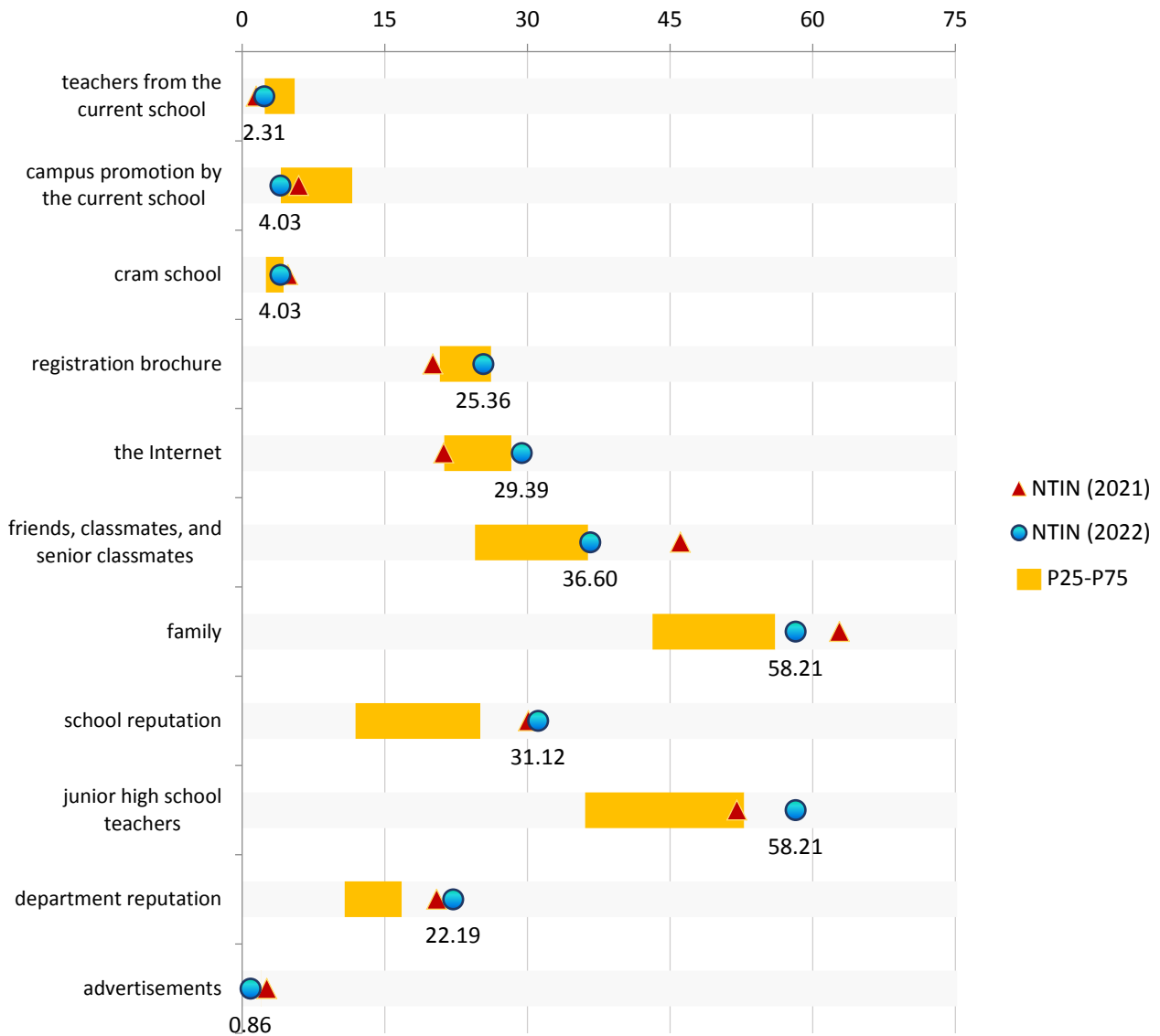
Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
teachers from the current school	2.31	20	1.49	--	2.36	5.54
campus promotion by the current school	4.03	22	5.95	20	4.06	11.58
cram school	4.03	66	4.83	66	2.48	4.36
registration brochure	25.36	66	20.07	46	20.79	26.18
the Internet	29.39	80	21.19	56	21.25	28.29
friends, classmates, and senior classmates	36.60	81	46.10	93	24.49	36.36
family	58.21	81	62.83	87	43.14	56.06
school reputation	31.12	90	30.11	84	11.91 **	25.03
junior high school teachers	58.21	93	52.04	81	36.07 *	52.78
department reputation	22.19	99	20.45	99	10.77 *	16.79
advertisements	0.86	--	2.60	57	1.97	1.98

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .





【Figure 9-1-1】Students' Ways of Obtaining Information on the School in comparison with P25, P75 & 2021(%) – Local student

## 2. 【Q2\*Q13】 Students' (with different status) Choice Priority to the School

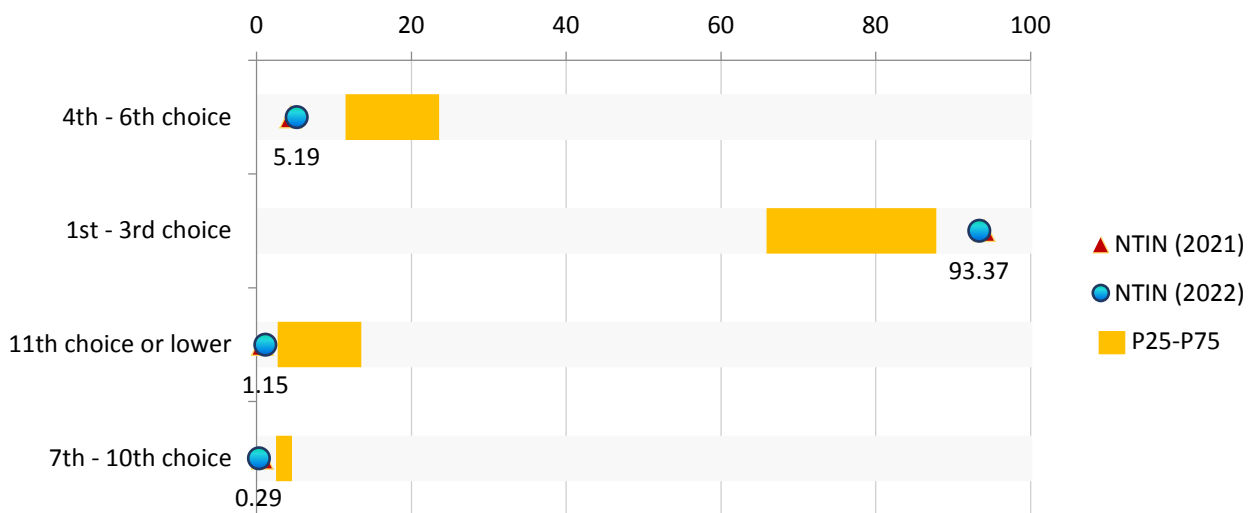
### (1) Local student

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
4th - 6th choice	5.19	1	4.46	1	11.49	23.61 **
1st - 3rd choice	93.37	99	94.05	93	65.91 *	87.87
11th choice or lower	1.15	--	0.74	--	2.71	13.55 **
7th - 10th choice	0.29	--	0.74	--	2.50	4.58

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 9-2-1】 Students' Choice Priority to the School in comparison with P25, P75 & 2021(%) — Local student

### 3. 【Q6\*Q10】Students' (from different region) Ways of Obtaining Information on the School

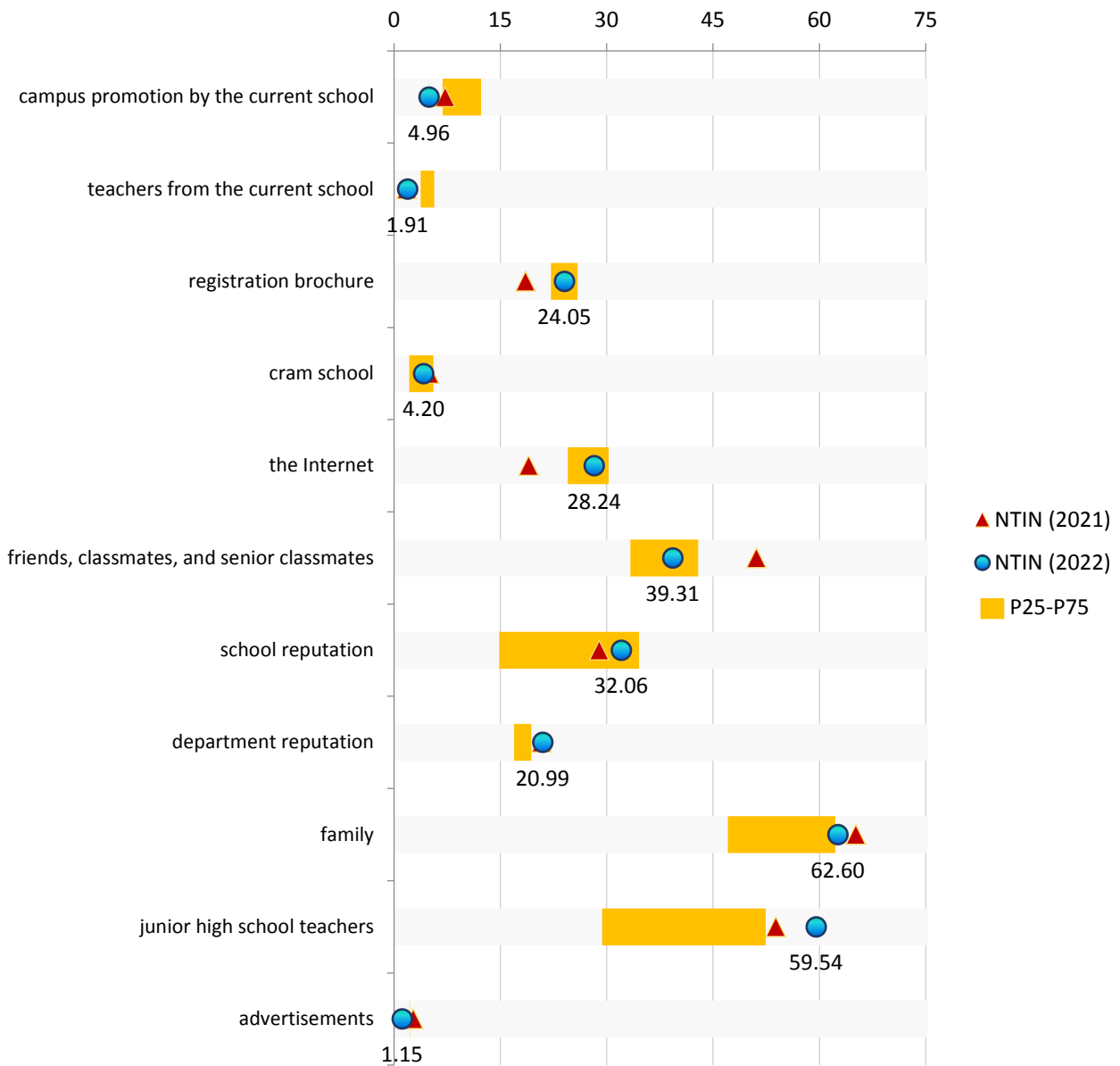
#### (1) Southern Region

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
campus promotion by the current school	4.96	1	7.24	1	6.88	12.31
teachers from the current school	1.91	1	1.81	--	3.76	5.70
registration brochure	24.05	66	18.55	16	22.15	25.91
cram school	4.20	66	4.98	66	2.13	5.59
the Internet	28.24	66	19.00	50	24.52	30.28
friends, classmates, and senior classmates	39.31	66	51.13	83	33.33	42.93
school reputation	32.06	66	28.96	80	14.85 *	34.57
department reputation	20.99	99	20.81	75	16.92	19.40
family	62.60	99	65.16	83	47.07	62.28
junior high school teachers	59.54	99	53.85	99	29.36 **	52.45
advertisements	1.15	--	2.71	50	2.20	2.28

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 9-3-1】Students' Ways of Obtaining Information on the School in comparison with P25, P75 & 2021(%) — Southern Region

#### 4. 【Q6\*Q11】 Students' (from different region) Main Reasons for Choosing the School

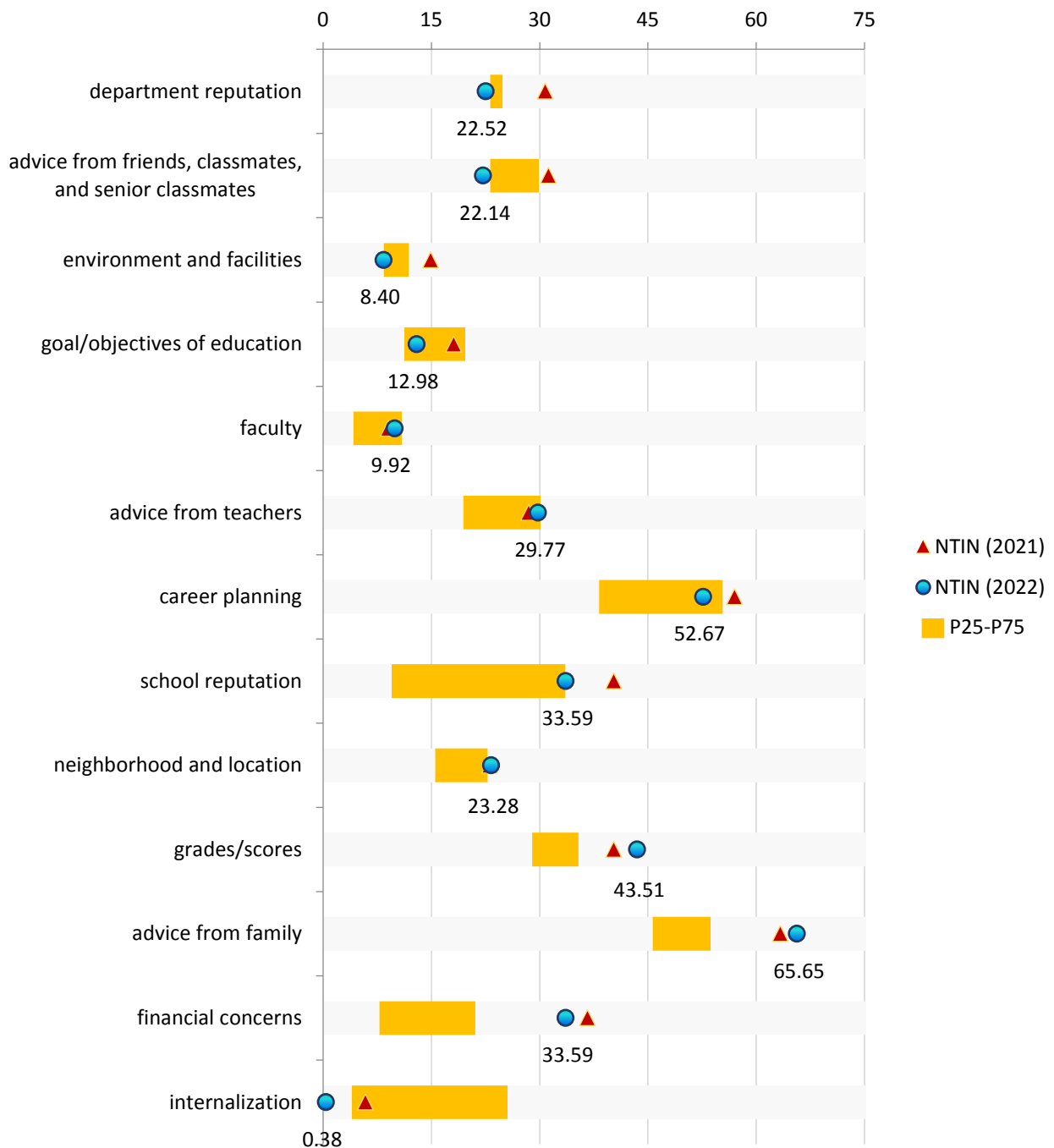
##### (1) Southern Region

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
department reputation	22.52	16	30.77	99	23.16	24.88
advice from friends, classmates, and senior classmates	22.14	20	31.22	99	23.15	29.89
environment and facilities	8.40	25	14.93	75	8.40	11.90
goal/objectives of education	12.98	33	18.10	60	11.26	19.71
faculty	9.92	66	9.05	75	4.21	10.92
advice from teachers	29.77	66	28.51	80	19.42	30.13
career planning	52.67	71	57.01	62	38.22	55.38
school reputation	33.59	75	40.27	80	9.48 **	33.59
neighborhood and location	23.28	80	23.08	99	15.52	22.82
grades/scores	43.51	99	40.27	83	28.97	35.39
advice from family	65.65	99	63.35	99	45.67	53.67
financial concerns	33.59	99	36.65	99	7.79 **	21.10
internalization	0.38	--	5.88	50	3.96	25.55 **

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 9-4-1】 Students' Main Reasons for Choosing the School in comparison with P25, P75 & 2021(%) — Southern Region



## 5. 【Q15\*Q11】 Students' (with different major) Main Reasons for Choosing the School

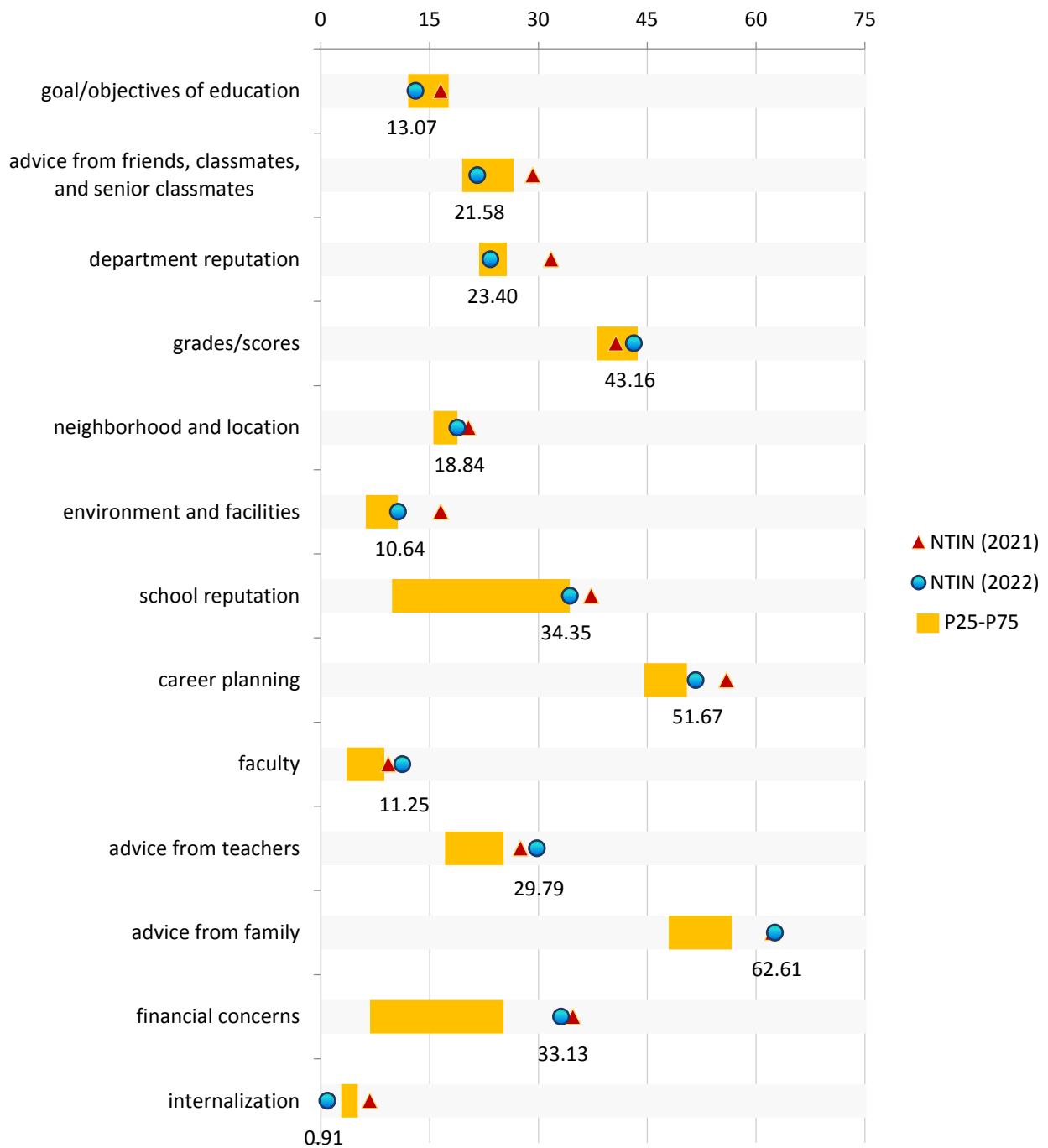
### (1) Medicine and Health

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
goal/objectives of education	13.07	50	16.53	80	12.03	17.65
advice from friends, classmates, and senior classmates	21.58	50	29.24	99	19.47	26.61
department reputation	23.40	50	31.78	80	21.83	25.67
grades/scores	43.16	50	40.68	80	38.05	43.69
neighborhood and location	18.84	75	20.34	60	15.51	18.84
environment and facilities	10.64	75	16.53	99	6.19	10.64
school reputation	34.35	75	37.29	99	9.83 **	34.35
career planning	51.67	99	55.93	80	44.58	50.49
faculty	11.25	99	9.32	99	3.56 *	8.74
advice from teachers	29.79	99	27.54	60	17.11	25.24
advice from family	62.61	99	62.29	80	47.97	56.68
financial concerns	33.13	99	34.75	99	6.78 **	25.24
internalization	0.91	--	6.78	99	2.80	5.11

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 9-5-1】 Students' Main Reasons for Choosing the School in comparison with P25, P75 & 2021(%)— Medicine and Health



## 6. 【Q15\*Q12】Students' (with different major) Considerations for Choosing the Major

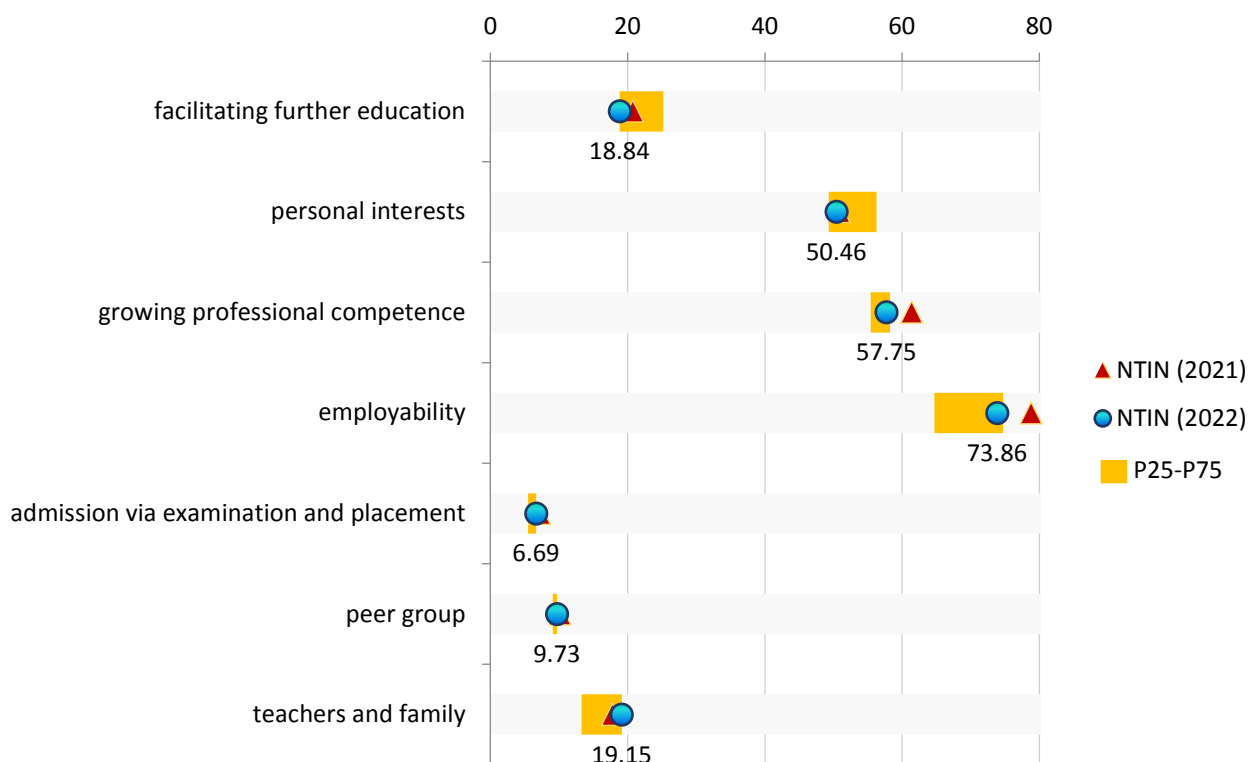
### (1) Medicine and Health

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
facilitating further education	18.84	25	20.76	40	18.84	25.24
personal interests	50.46	50	50.85	80	49.32	56.31
growing professional competence	57.75	50	61.44	99	55.42	58.29
employability	73.86	50	78.81	80	64.71	74.76
admission via examination and placement	6.69	66	7.20	99	5.48	6.71
peer group	9.73	75	10.17	60	9.09	9.73
teachers and family	19.15	75	17.80	60	13.27	19.15

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 9-6-1】Students' Considerations for Choosing the Major in comparison with P25, P75 & 2021(%) — Medicine and Health

## 7. 【Q15\*Q14】Students' (with different major) Choice Priority to the Department

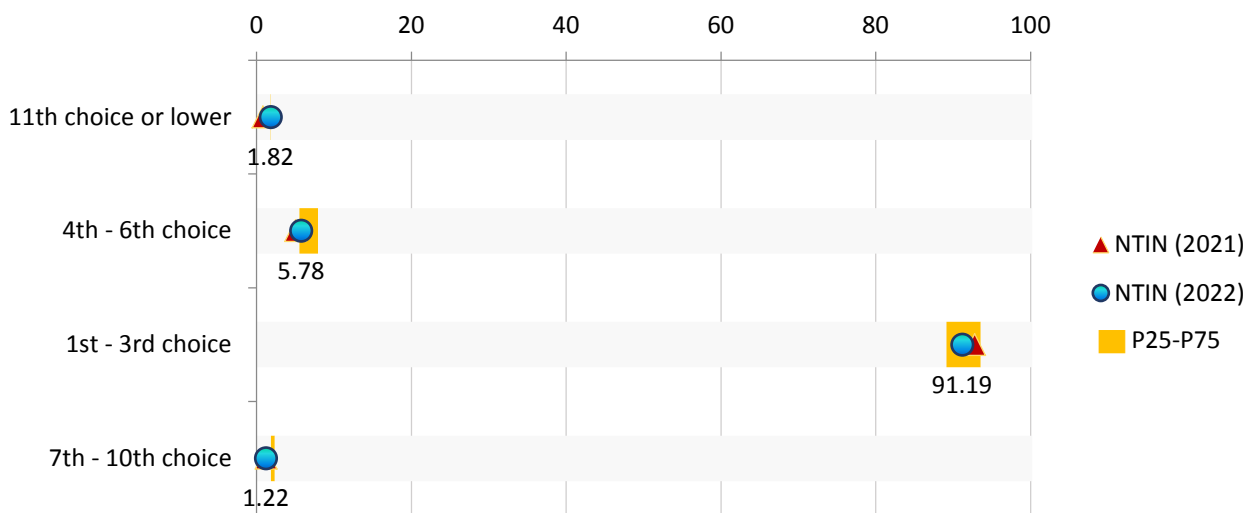
### (1) Medicine and Health

Item	NTIN (2022)		NTIN (2021)		P25 (2022)	P75 (2022)
	Percentage	Percentile	Percentage	Percentile	(%)	(%)
11th choice or lower	1.82	1	0.85	--	1.83	1.85
4th - 6th choice	5.78	33	5.08	1	5.54	7.92
1st - 3rd choice	91.19	50	92.80	80	89.15	93.58
7th - 10th choice	1.22	--	1.27	--	1.86	1.86

Note 1: The order of items is based on the order of the percentile of 2022. A direct question with lower figure shall be prioritized; an indirect question with higher figure shall be prioritized.

Note 2: Among 17 institutions that had joined the survey, if Institution A's "Percentile" is Pk, then it indicates Institution A's value is higher than k% of the institution number. For instance, P99 indicates the institution with the value higher than 99% of institutions, which means higher than other 16 institutions; P50 indicates the institution with the value higher than 50% of institutions, which means higher than other 8 ones. To reduce analysis errors, any institution with less than five samples will not be calculated for percentile.

Note 3: "\*" represents that the value and the institution's result have significant difference while the confidence level is  $p=0.05$  (two-tailed test); "\*\*\*" represents that they have very significant difference while the confidence level is  $p=0.01$ .



【Figure 9-7-1】Students' Choice Priority to the Department in comparison with P25, P75 & 2021(%) — Medicine and Health



## Appendix: Questionnaire

# TWAEA 2021-22 National Survey on Freshman Learning Adaptation 【Junior College】

Dear student,

First of all, thank you for your time spent on this questionnaire. This is a national survey intended for the study on the learning adaptation of freshmen. To better the educational quality of colleges, your participation to this questionnaire is a great help to us for the future improvement on both the institutional administration and learning environment. Anonymity is adopted for this questionnaire, and the provided answers will be collected only for research, not for other usages.

It will take about 5~10 minutes to complete the questionnaire. Your answers will benefit a lot to the college's future development and quality enhancement. We value and respect your true feelings very much, please follow your subjective judgment to answer the questions. In case of any questions please email to [cindy@twaea.org.tw](mailto:cindy@twaea.org.tw). Thank you for your cooperation and support.

Taiwan Assessment and Evaluation Association

### A. Basic Information

1. Gender: ☐<sub>1</sub> Male ☐<sub>2</sub> Female
2. Status:  
☐<sub>1</sub> Local student ☐<sub>2</sub> Overseas Chinese student ☐<sub>3</sub> Student from Mainland China  
☐<sub>4</sub> Student from Hong Kong or Macao ☐<sub>5</sub> Foreign student (Nationality):
3. Current Family Financial Situation:  
☐<sub>1</sub> Extremely rich ☐<sub>2</sub> Rich ☐<sub>3</sub> Middle class ☐<sub>4</sub> Poor ☐<sub>5</sub> Extremely poor
4. Culturally Unfavorable Background (multiple choices)  
☐<sub>1</sub> The first one to study at university/college in the family (none of the great grandparents, grandparents, and parents went to university/college, including five-year junior college, two-year junior college, and four-year technical university/college)  
☐<sub>2</sub> New immigrant or second generation of new immigrant  
☐<sub>3</sub> No culturally unfavorable background  
☐<sub>4</sub> Others \_\_\_\_\_
5. From which type of school did you graduate?  
☐<sub>1</sub> Public Junior High School ☐<sub>2</sub> Private Junior High School ☐<sub>3</sub> Home study ☐<sub>4</sub> Other\_
6. Where is the location of the school that you graduated from?  
☐<sub>1</sub> Taipei City ☐<sub>2</sub> New Taipei City ☐<sub>3</sub> Keelung City ☐<sub>4</sub> Yilan County  
☐<sub>5</sub> Taoyuan City ☐<sub>6</sub> Hsinchu City ☐<sub>7</sub> Hsinchu County ☐<sub>8</sub> Miaoli County  
☐<sub>9</sub> Taichung City ☐<sub>10</sub> Changhua County ☐<sub>11</sub> Nantou County ☐<sub>12</sub> Yunlin County  
☐<sub>13</sub> Chiayi City ☐<sub>14</sub> Chiayi County ☐<sub>15</sub> Tainan City ☐<sub>16</sub> Kaohsiung City  
☐<sub>17</sub> Pingtung County ☐<sub>18</sub> Hualien County ☐<sub>19</sub> Taitung County ☐<sub>20</sub> Penghu County  
☐<sub>21</sub> Kinmen County ☐<sub>22</sub> Lienchiang County ☐<sub>23</sub> Foreign Country
7. How do you afford to pay for your tuition fees? (multiple choices)  
☐<sub>1</sub> Contributions/remittance from family ☐<sub>2</sub> Earnings from part-time job  
☐<sub>3</sub> Scholarship ☐<sub>4</sub> Financial aids ☐<sub>5</sub> Other \_\_\_\_\_



8. How do you afford to pay for the cost of learning and living (including books, housing, transportation, food and etc.)? (multiple choices)

- ☐<sub>1</sub> Contributions/remittance from family      ☐<sub>2</sub> Earnings from part-time job  
☐<sub>3</sub> Scholarship      ☐<sub>4</sub> Financial aids      ☐<sub>5</sub> Other \_\_\_\_\_

### B. Admission Consideration

9. How did you gain admission to your current school?

- ☐<sub>1</sub> Independent Recruitment      ☐<sub>2</sub> Admission without Examination  
☐<sub>3</sub> Continuant Recruitment without Examination      ☐<sub>4</sub> Other \_\_\_\_\_

10. The ways of obtaining information on your current school (multiple choices)

- ☐<sub>1</sub> junior high school teachers      ☐<sub>2</sub> campus promotion by your current school  
☐<sub>3</sub> school reputation      ☐<sub>4</sub> department reputation      ☐<sub>5</sub> registration brochure      ☐<sub>6</sub> family  
☐<sub>7</sub> friends, classmates, and senior classmates      ☐<sub>8</sub> the Internet      ☐<sub>9</sub> cram school  
☐<sub>10</sub> teachers from your current school      ☐<sub>11</sub> advertisements (on bus, billboard)

11. The main reasons for selecting your current school (multiple choices)

- ☐<sub>1</sub> your grades/scores      ☐<sub>2</sub> career planning      ☐<sub>3</sub> goal/objectives of education  
☐<sub>4</sub> department reputation      ☐<sub>5</sub> school reputation      ☐<sub>6</sub> internalization  
☐<sub>7</sub> environment and facilities      ☐<sub>8</sub> faculty      ☐<sub>9</sub> advice from family  
☐<sub>10</sub> advice from teachers      ☐<sub>11</sub> advice from friends, classmates, and senior classmates  
☐<sub>12</sub> neighborhood and location      ☐<sub>13</sub> financial concerns (tuition, scholarship, housing)

12. The considerations for selecting your current major (multiple choices)

- ☐<sub>1</sub> personal interests      ☐<sub>2</sub> growing professional competence      ☐<sub>3</sub> employability  
☐<sub>4</sub> facilitating further education      ☐<sub>5</sub> admission via examination and placement      ☐<sub>6</sub> peer group  
☐<sub>7</sub> teachers and family

13. Your current school is your:

- ☐<sub>1</sub> 1st - 3rd choice      ☐<sub>2</sub> 4th - 6th choice      ☐<sub>3</sub> 7th - 10th choice      ☐<sub>4</sub> 11th choice or lower

14. Your current department is your:

- ☐<sub>1</sub> 1st - 3rd choice      ☐<sub>2</sub> 4th - 6th choice      ☐<sub>3</sub> 7th - 10th choice      ☐<sub>4</sub> 11th choice or lower

### C. Major and Learning

15. In which domain is your major?

- ☐<sub>1</sub> Information Technology      ☐<sub>2</sub> Engineering      ☐<sub>3</sub> Mathematics, Physics and Chemistry  
☐<sub>4</sub> Medicine and Health      ☐<sub>5</sub> Life Sciences      ☐<sub>6</sub> Biological Resources  
☐<sub>7</sub> Earth and Environment      ☐<sub>8</sub> Architecture and Design      ☐<sub>9</sub> Art  
☐<sub>10</sub> Sociology and Psychology      ☐<sub>11</sub> Mass Communication      ☐<sub>12</sub> Foreign Language  
☐<sub>13</sub> Literature, History and Philosophy      ☐<sub>14</sub> Education  
☐<sub>15</sub> Law and Politics      ☐<sub>16</sub> Management      ☐<sub>17</sub> Finance and Economics  
☐<sub>18</sub> Recreation and Sports      ☐<sub>19</sub> Other

16. Were the following activities held for freshmen? (multiple choices)

- ☐<sub>1</sub> orientation held by school      ☐<sub>2</sub> orientation held by department  
☐<sub>3</sub> gatherings with seniors      ☐<sub>4</sub> welcome activities      ☐<sub>5</sub> other \_\_\_\_\_      ☐<sub>6</sub> none

17. How well do you know your current department? (five-point scale; 1: low; 5: high)

- (1) learning scope and objectives      ☐<sub>1</sub>      ☐<sub>2</sub>      ☐<sub>3</sub>      ☐<sub>4</sub>      ☐<sub>5</sub>  
(2) core competencies upon graduation      ☐<sub>1</sub>      ☐<sub>2</sub>      ☐<sub>3</sub>      ☐<sub>4</sub>      ☐<sub>5</sub>



- |  |                            |                            |                            |                            |                            |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (3) academic curriculum (required and selective courses) | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (4) connection between courses and employability         | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (5) abilities which each course intends to build         | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (6) graduation requirements                              | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

18. What do you think of your department to date? (five-point scale; 1: low; 5: high)

- |                               |                            |                            |                            |                            |                            |
|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (1) academic challenge        | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (2) teacher's professionalism | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (3) teaching quality          | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (4) overall satisfaction      | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

#### D. School Resources

19. What is your expectation for the services offered by your school? (five-point scale; 1: low; 5: high)

- |  |                            |                            |                            |                            |                            |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (1) expectation for efficient administrative service and flexible solutions  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (2) expectation for convenient course selection system   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (3) expectation for user friendly website  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (4) expectation for plentiful academic resources (books, journals or electronic resources)   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (5) expectation for decent facilities in the library   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (6) expectation for job-relevant internships   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (7) expectation for sound guidance for daily life and career counseling  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (8) expectation for decent support for obtaining certificates and its financial aids   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (9) expectation for decent support for participating in competitions and its financial aids  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (10) expectation for plentiful international interchange opportunities (e.g., student exchange, joint degree programs)                     | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (11) expectation for sufficient opportunities for multiple learning (e.g., minor, double major)  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (12) expectation for international learning sources (e.g., foreign language self-learning center, scenario classrooms, lecture in English) | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (13) expectation for flexible and appropriate curriculum   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (14) expectation for decent assistance for course selection  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (15) expectation for comprehensive liberal learning courses  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (16) expectation for e-learning and information technology support   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (17) expectation for practical teaching equipment  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (18) expectation for comfortable classrooms  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (19) expectation for multiple student clubs  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (20) expectation for decent dormitory and accommodation  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (21) expectation for good school cafeteria and dining arrangements   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (22) expectation for good amenities on campus  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (23) expectation for clean campus and environment  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |



- |      |   |                            |                            |                            |                            |                            |
|------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (24) | expectation for convenient transportation                           | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (25) | expectation for useful information on housing                       | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (26) | expectation for useful information on part-time jobs or scholarship | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

20. To date, how satisfied are you with the services offered by your school? (five-point scale; 1: very dissatisfied; 5: very satisfied)

- |      |   |                            |                            |                            |                            |                            |                            |         |
|------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------|
| (1)  | satisfaction with efficient administrative service and flexible solutions   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (2)  | satisfaction with convenient course selection system  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (3)  | satisfaction with user friendly website   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (4)  | satisfaction with plentiful academic resources (books, journals or electronic resources)  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (5)  | satisfaction with decent facilities in the library  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (6)  | satisfaction with job-relevant internships  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (7)  | satisfaction with sound guidance for daily life and career counseling   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (8)  | satisfaction with decent support for obtaining certificates and its financial aids  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (9)  | satisfaction with decent support for participating in competitions and its financial aids   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (10) | satisfaction with plentiful international interchange opportunities (e.g., student exchange, joint degree programs)                     | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (11) | satisfaction with sufficient opportunities for multiple learning (e.g., minor, double major)  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (12) | satisfaction with international learning sources (e.g., foreign language self-learning center, scenario classrooms, lecture in English) | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (13) | satisfaction with flexible and appropriate curriculum   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (14) | satisfaction with decent assistance for course selection  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (15) | satisfaction with comprehensive liberal learning courses  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (16) | satisfaction with e-learning and information technology support   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (17) | satisfaction with practical teaching equipment  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (18) | satisfaction with comfortable classrooms  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (19) | satisfaction with multiple student clubs  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (20) | satisfaction with decent dormitory and accommodation  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (21) | satisfaction with good school cafeteria and dining arrangements   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (22) | satisfaction with good amenities on campus  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (23) | satisfaction with clean campus and environment  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |



- |      |   |                            |                            |                            |                            |                            |                            |         |
|------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------|
| (24) | satisfaction with convenient transportation                           | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (25) | satisfaction with useful information on housing                       | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |
| (26) | satisfaction with useful information on part-time jobs or scholarship | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | unknown |

### E. Learning Experience

21. To what extent can the following descriptions represent your feeling towards curriculum arrangement? (five-point scale; 1: strongly disagree; 5: strongly agree)

- |     |  |                            |                            |                            |                            |                            |
|-----|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (1) | The syllabus is always clearly posted on the website before course selection.                                  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (2) | I can obtain sufficient professional knowledge and skills through the institution's courses before graduation. | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (3) | I can take the professional programs that I want from my institution.  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

22. To what extent can the following descriptions represent your proficiency in foreign language? (five-point scale; 1: strongly disagree; 5: strongly agree)

- |     |   |                            |                            |                            |                            |                            |
|-----|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (1) | I am capable of reading and understanding English text books.   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (2) | My institution's graduation threshold for foreign languages can encourage me in studying harder.                  | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (3) | I've passed more than one (including one) foreign language proficiency tests.                                     | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (4) | I believe that I can use foreign language fluently and effectively in communicating with others after graduation. | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

23. To date, how often did the following situation happen to you? (five-point scale; 1: never; 5: frequently)

- |      |   |                            |                            |                            |                            |                            |
|------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (1)  | ask classmates or seniors to help with class questions        | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (2)  | help classmates with class questions                          | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (3)  | prepare for exams by discussing or practicing with classmates | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (4)  | work with other students on course projects or assignments    | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (5)  | discuss course topics and ideas with teachers                 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (6)  | prepare for class and summarize questions in advance          | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (7)  | listen to teachers attentively and take notes                 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (8)  | review notes after class and summarize lectures               | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (9)  | collect information on courses without being asked            | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (10) | attend class regularly and punctually                         | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (11) | meet the class requirements (assignments or reports)          | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

24. How much time per day do you spend in doing the following activities? (five-point scale; 1: no time being spent; 5: very much)

- |     |  |                            |                            |                            |                            |                            |
|-----|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| (1) | preparing for class (previewing or information collection)   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (2) | studying courses   | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (3) | preparing for certification exams or competitions            | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (4) | doing assignments or reports                                 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (5) | extracurricular activities (student clubs or varsity)        | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (6) | community service or volunteering                            | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (7) | leisure activities (sports, parties, outings or reading)     | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| (8) | using the Internet or smartphone (not for learning purposes) | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |





- (9) part-time job ☐1 ☐2 ☐3 ☐4 ☐5
- (10) spending time with family ☐1 ☐2 ☐3 ☐4 ☐5
- (11) spending time with girlfriend/boyfriend ☐1 ☐2 ☐3 ☐4 ☐5

25. To what extent can the following descriptions represent your feeling/attitude towards learning? (five-point scale; 1: not true; 5: true)

- (1) think it interesting to learn most of the classes ☐1 ☐2 ☐3 ☐4 ☐5
- (2) find additional things to learn beside courses in school ☐1 ☐2 ☐3 ☐4 ☐5
- (3) learn things yourself via multiple ways ☐1 ☐2 ☐3 ☐4 ☐5
- (4) prepare for class (coursework or paper) ☐1 ☐2 ☐3 ☐4 ☐5
- (5) concentrate on studying and ignore distractions ☐1 ☐2 ☐3 ☐4 ☐5
- (6) ask questions in class ☐1 ☐2 ☐3 ☐4 ☐5
- (7) engage in course discussions and express opinions ☐1 ☐2 ☐3 ☐4 ☐5
- (8) solve problems at your best when facing challenges ☐1 ☐2 ☐3 ☐4 ☐5
- (9) stay positive and motivated ☐1 ☐2 ☐3 ☐4 ☐5

26. To date, how well are you doing in the following activities? (five-point scale; 1: very poor; 5: very good)

- (1) keep up with class in general ☐1 ☐2 ☐3 ☐4 ☐5
- (2) concentrate on studying ☐1 ☐2 ☐3 ☐4 ☐5
- (3) make good use of time to learn ☐1 ☐2 ☐3 ☐4 ☐5
- (4) learn class materials effectively ☐1 ☐2 ☐3 ☐4 ☐5
- (5) feel satisfied with your academic performance ☐1 ☐2 ☐3 ☐4 ☐5
- (6) turn your effort to academic performance proportionally ☐1 ☐2 ☐3 ☐4 ☐5
- (7) know how to ask for help while encountering difficulty in learning ☐1 ☐2 ☐3 ☐4 ☐5
- (8) set priorities and schedule appropriately ☐1 ☐2 ☐3 ☐4 ☐5
- (9) collaborate well with others on coursework ☐1 ☐2 ☐3 ☐4 ☐5
- (10) good at writing reports ☐1 ☐2 ☐3 ☐4 ☐5
- (11) deliver oral presentation readily ☐1 ☐2 ☐3 ☐4 ☐5
- (12) get to points from lecturers ☐1 ☐2 ☐3 ☐4 ☐5

27. To what extent can the following ways of giving a lesson help your learning? (five-point scale; 1: unhelpful; 5: very helpful)

- (1) lecture and explanation from teachers ☐1 ☐2 ☐3 ☐4 ☐5
- (2) assigned readings (textbooks or handouts) ☐1 ☐2 ☐3 ☐4 ☐5
- (3) videos or multimedia used for teaching ☐1 ☐2 ☐3 ☐4 ☐5
- (4) case study ☐1 ☐2 ☐3 ☐4 ☐5
- (5) interactive activities ☐1 ☐2 ☐3 ☐4 ☐5
- (6) teamwork (discussion, coursework or presentation) ☐1 ☐2 ☐3 ☐4 ☐5
- (7) experiment and exercise with the aid of teachers ☐1 ☐2 ☐3 ☐4 ☐5
- (8) course project (topics selected by students) ☐1 ☐2 ☐3 ☐4 ☐5
- (9) keynote speech or demonstration ☐1 ☐2 ☐3 ☐4 ☐5
- (10) field trip or tour ☐1 ☐2 ☐3 ☐4 ☐5
- (11) co-teaching or team-teaching ☐1 ☐2 ☐3 ☐4 ☐5
- (12) review and summary of key points by teachers after students watch teaching video ☐1 ☐2 ☐3 ☐4 ☐5





## F. Self-Evaluation

28. To date, which of the following in college has ever troubled you? (multiple choices)
- ☐<sub>1</sub> preparing for class    ☐<sub>2</sub> getting learning support and resources    ☐<sub>3</sub> time management  
☐<sub>4</sub> emotional management    ☐<sub>5</sub> health management    ☐<sub>6</sub> Internet/online games addiction  
☐<sub>7</sub> interacting with family    ☐<sub>8</sub> financial pressure    ☐<sub>9</sub> interacting with teachers  
☐<sub>10</sub> participating in school clubs    ☐<sub>11</sub> interacting with classmates    ☐<sub>12</sub> future direction  
☐<sub>13</sub> socializing/interacting with the opposite sex    ☐<sub>14</sub> pressure from academic competition  
☐<sub>15</sub> other \_\_\_\_\_
29. What are you planning to do after finishing current degree?
- ☐<sub>1</sub> continuing your education in Taiwan    ☐<sub>2</sub> studying abroad    ☐<sub>3</sub> working  
☐<sub>4</sub> military service    ☐<sub>5</sub> under planning
30. What are your learning focuses during school years? (multiple choices)
- ☐<sub>1</sub> professional skills at work    ☐<sub>2</sub> leadership, management and planning  
☐<sub>3</sub> software used for word processing    ☐<sub>4</sub> information technology application  
☐<sub>5</sub> foreign language(s)    ☐<sub>6</sub> transferring internationally  
☐<sub>7</sub> written communication    ☐<sub>8</sub> reading comprehension  
☐<sub>9</sub> clear and organized presentation    ☐<sub>10</sub> interpersonal communication  
☐<sub>11</sub> teamwork    ☐<sub>12</sub> innovative and creative thinking  
☐<sub>13</sub> entrepreneurship    ☐<sub>14</sub> administrative coordination  
☐<sub>15</sub> problem detecting and solving    ☐<sub>16</sub> project implementation  
☐<sub>17</sub> numerical and logical reasoning    ☐<sub>18</sub> analysis and critical thinking  
☐<sub>19</sub> interdisciplinary integration    ☐<sub>20</sub> information collection and processing  
☐<sub>21</sub> emotional management    ☐<sub>22</sub> time management  
☐<sub>23</sub> Other \_\_\_\_\_
31. To what extent can the following descriptions represent your status? (five-point scale; 1: not at all; 5: to a great extent)
- |  |                                       |                                       |                                       |                                       |                                       |
|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| (1) considering transferring to other school               | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (2) considering changing major                             | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (3) considering taking the entrance exam again             | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (4) considering dropping out of school                     | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (5) clearly understand the purpose of getting into college | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (6) positive results can be expected during school time    | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (7) learn things happily                                   | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (8) clearly understand learning goal                       | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |

## G. Overall Satisfaction

32. To date, how satisfied are you with your school? (five-point scale; 1: strongly disagree; 5: strongly agree)
- |   |                                       |                                       |                                       |                                       |                                       |
|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| (1) I am willing to recommend others to study at my department.             | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (2) I am willing to recommend others to study at my school.                 | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (3) As a whole, I think the climate for learning in my institution is good. | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
| (4) As a whole, I am satisfied with my school.                              | <input type="checkbox"/> <sub>1</sub> | <input type="checkbox"/> <sub>2</sub> | <input type="checkbox"/> <sub>3</sub> | <input type="checkbox"/> <sub>4</sub> | <input type="checkbox"/> <sub>5</sub> |
33. Other suggestions: To make improvement, please feel free to offer your suggestions on your school

**Thank you for completing the questionnaire.**



前瞻評鑑



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