

UNIVERSITI TUNKU ABDUL RAHMAN

FACULTY OF SCIENCE

UDPS 2033 SAMPLE SURVEY AND SAMPLING TECHNIQUES

TRIMESTER JANUARY 2020

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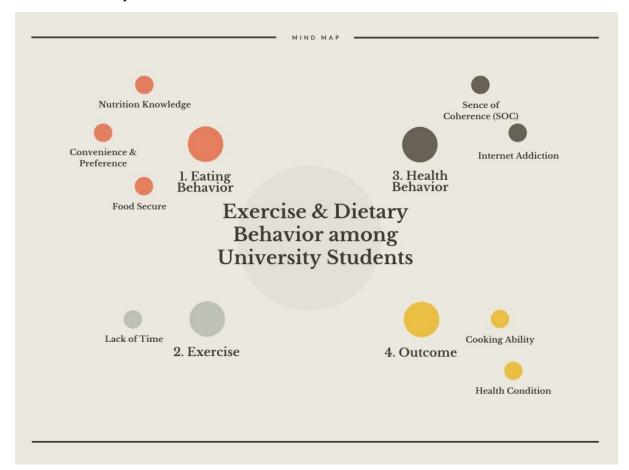
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Reviewed article summary:

Author, Year	Objective	Sample Size	Study Design	Main Finding
Sam Abraham, et al. 2018	To examine college students' eating habits and knowledge of nutritional requirements for health.	121 college students	Cross-secti onal study, with a descriptive design	Students have fair knowledge of nutritional requirements for health. However, the food choices they made are not necessarily healthy. Convenience and taste of food were priority.
Farrukh Majeed, et al. 2018	To assess the diet and exercise habits and their association with BMI in female college students.	215 female college students	Cross Sectional study	Students preferred unhealthy food and "lack of time" was the most frequently mentioned barrier to eating a healthy diet and engaging in regular exercise. Emphasis should be given to implementing interventions aimed at increasing physical activity and encouraging healthier diets among students thereby reducing their future risk of chronic disease.
Binkowsk a-Bury,M. , et al. (2010).	To evaluate the relation between Sence of Coherence (SOC) and intensity of health related behaviours among university students	555 university students	Cross sectional study design	SOC correlates positively with the tendency towards health related behaviour. The higher the level of coherence, the higher is the tendency towards practising pro-health behaviours.

To investigate the	368	Cross-secti	Preparing meals at home is less
relationships between	students of	onal study	common for very low food
food security status and	University		secure students, and these
cooking self-efficacy	of Alabama		students demonstrate less
and food preparation			confidence in cooking ability.
behaviors among			
college students.			
To examine the	503 female	Cross-secti	The results confirmed the
relationships among	junior	onal study	relationship between
health-related	college	design	health-related behaviors and
behavior,and Internet	students in		Internet addiction.
addiction in female	southern		
adolescents	Taiwan		
	relationships between food security status and cooking self-efficacy and food preparation behaviors among college students. To examine the relationships among health-related behavior, and Internet addiction in female	relationships between students of University cooking self-efficacy and food preparation behaviors among college students. To examine the relationships among junior health-related behavior, and Internet addiction in female students in southern	relationships between students of food security status and cooking self-efficacy and food preparation behaviors among college students. To examine the southern students in addiction in female students onal study onal study design

General MindMap of the article that we studied:



Part 1:

- **1. Research Question:** Do the cooking ability of university students affect their eating behaviour and health condition?
- **2. Objective:** To determine the relationship between university students' cooking ability and their health condition.
- **3. Study Design**: Cross-Sectional Study. Because the study regarding the sample over the time is not necessary in our case. Therefore, we just adapt the questionnaire and analyse the result at a specific point in time based on the survey.
- **4. Sampling Technique:** Stratified sampling. We separate our target population into stratum according to different faculty in UTAR. Then, we obtain the class timetable

of different courses from different Faculty General Offices (FGO) and apply simple random sampling to select the courses and time slots from each stratum (faculty).

- 5. List the following for the study based on the design and sampling technique specified:
 - i. **Population -** All Malaysia university students.
 - Target population UTAR Kampar students during the data collection period.
 - iii. **Sampling frame** Lists of timetable from different faculty (obtainable from every FGO)
 - iv. Sampling unit Different timetable of different courses.
 - v. **Elements** Selected students in different faculties.
 - vi. Samples UTAR students in Kampar.

PART II:

1. Develop an appropriate questionnaire for the study.

Survey Questionnaire

Part A: Respondent Demographic

Instruction: Choose only one answer for this part. Please put a tick "✓" in the box next to the answer of your choice.

1.	Please	indicate your gender:
		Male
		Female
2.	Please	indicate your faculty:
		Faculty of Science (FSc)
		Faculty of Engineering and Green Technology (FEGT)
		Faculty of Business and Finance (FBF)

	☐ Faculty of Arts and Social Science (FAS)
	☐ Faculty of Information and Communication Technology (FICT)
	☐ Institute of Chinese Studies (ICS Kampar)
	☐ Centre for Foundation Studies (CFS Kampar)
3.	Please indicate your year of study:
	☐ Foundation
	☐ Year 1
	☐ Year 2
	☐ Year 3
	☐ Year 4 and above
4.	Weight:
	\Box < 40kg
	□ 41 - 60kg
	□ 61 - 80kg
	\Box > 80kg
_	
5.	Height:
	□ < 150cm
	□ 151 - 160cm
	□ 161 - 170 cm
	□ > 170cm
Dart E	B: Personal Eating Behaviour
1.	By adapting the standard students food survey (from Q1 to Q28) as shown in
	appendix.

Part C: Health Behaviour

Instruction: Choose only one answer for this part. Please put a tick "\(\nsigma\)" in the box next to the answer of your choice or write in the space provided as the case may be.

1.	How often do you seek the consultation from a doctor?
	☐ Less than once per year
	☐ 1 - 3 times per year
	☐ 4 - 6 times per year
	□ > 6 times per year
2.	Do you currently suffer from any chronic diseases (long term disease)?
	□ Yes
	□ No
	If yes, please specify:
3.	Do you have any hereditary conditions/diseases (genetically inherited)?
	□ Yes
	□ No
	If yes, please specify:
1	Have you taken any medicine in the past 24 hours?
т.	Yes
	□ No
	If yes, please specify:
5.	How many medications have been prescribed by the doctor that you have taken in the
	last 24 hours?
	□ None
	u 1
	2
	3
	$\square \geq 4$
	-

6. Thinking about the last week, how often did you exercise for about 30 minutes? By

exercise, we mean any physical activity that increases your heart rate.

		■ Every day					
	Ç	4-5 times a wee	k				
	Ç	2-3 times a wee	k				
		Less than twice	a week				
		Never					
7.	How o	often do you use th	he sports/fitne	ess facilities	in each of t	he following	? Please ticl
	one bo	ox in each row.					
			Every day	4-6 times a week	2-3 times a week	Less often	Never
		ersity sports e (Block C)					
	Priva	ate gym					
	Sport	ts club					
	Publi	ic facilities					
	Gym home	equipment at					
			L		l.	L	
8.	How v	would you evaluate	e vour overall	l health? Wo	ould vou sav	vou are:	
		In good physical	•			,	
		Mildy physically	•		,	es)	
		Moderately physic	-				
		Severely physica	lly impaired.	(Requires ex	xtensive trea	itment)	

2. Propose a data collection technique for the study.

Closed-ended surveys. In our case, we apply both main types of closed-ended survey, which are categorical and interval/ratio questionnaires because we offer the predefined answer options for the respondents. Hence, these types of data collection methods are rather simple to understand and can be easily analyzable. Besides that, respondents might be more willing to participate themselves in the survey due to the fact that they no need to think of what kind of answer to write as the answer options already provided. Thus, this technique saves them a lot of trouble and time where they just need to tick any particular option that fits them the most.

We execute the data collection step-by-step. Firstly, we separate the target population into stratum according to different faculty in UTAR Kampar. Then, we obtain the class timetable of different courses from different Faculty General Offices (FGO) and do some simple random sampling to select the courses and time slots. Lastly, we give out the survey questionnaires for the students to fill-in in their respective classroom.

Appendix: Questionnaire

APPENDIX 2: QUESTIONNAIRE

Student Food Survey

The Food Standards Agency is interested in talking to students about a number of issues related to food. We need your co-operation and would be grateful if you would answer the questions below. Thank you for your support and please be assured that all the information you provide is confidential.

All the questions relate to where you usually live during term time.

Firstly, we'd like to ask you about where you live and your responsibility for food

snopping.	
Q1: Do you live	
With your parents	1
With your partner	2
With your partner and children	3 Go to Q19
With your children	4
In catered university accommodation	5
In self-catering university accommodation	6
In a private house with other students	7
Other (please specify)	8
Q2: Do you usually prepare and eat food with a groun and eat food individually? Prepare and eat food as part of a group 1 Prepare Q3: Which of the following do you have access to in Please tick all that apply.	re and eat food individually 2
Hob/Cooking rings	1
Oven	1
Grill	1
Fridge	1
Freezer	1
Microwave	1
Storage facilities (eg food cupboards)	1
Cooking equipment (eg saucepans, knives)	1
Now we'd like to ask you some questions about sho	pping for food.
Q4: On average, how much would you spend on foo that you buy to cook as well as eating out.	d per week? This includes food
Less than £20 per week	1
£20-29 per week	2
£30-£39 per week	3
£40-£49 per week	4
£50 per week or more	5
I don't know	6
	2

Q5: When you are buying food, which 3 of the follow most? Please tick 3 factors only	ing fact	ors do you consider
Quality or freshness of the food	1	
Habit or routine	1	
Price of the food	1	
How much money I have	1	
The availability of the food in the shops I go to	1	
Taste	1	
Convenience in preparation	1	
Foods I know how to cook/prepare	1	
Someone else decides on most of the food I eat	1	
Other (please specify)	1	
Q6: How often do you usually buy groceries?		
Every day	1	
Every 2-3 days	2	
About once a week	3	
Once a month	4	
Less often	5	
Q7: Where do you buy most of your groceries?		
On the internet	1	Go to Q10
Supermarkets	2	
Local shops (eg Spar, Mace, garages)	3	
Markets	4	
Other (please specify)	5	
Thinking about where you buy most of your grocerie	es	
Of: How for is it from where you live?		
Q8: How far is it from where you live? Less than 1 mile		
1-2 miles	1	
3-4 miles	2	
More than 4 miles	3	
Wore than 4 miles	4	

Q9: How do you t	usually get yo	ur groceries	home?	_	
		0	n the bus	1	
		E	y bicycle	2	
			I drive	3	
	Som	eone else gives	me a lift	4	
			l walk	5	
	The	groceries are	delivered	6	
		Other (please	e specify)	7	
Q10: Do you shop	o there for any		sons? Please	tick all that	apply.
Valu	e for money - it	's cheaper to sl	nop there	1	
	There	is a good choice	e of food	1	
	The qu	uality of the foo	d is good	1	
		Other (please	specify)	1	
			50 9905000		
Q11: How many s	where you live	e? f none, pleas	e go to Q13		
Q12: How do you you live, in terms Please tick one be	of		ceries within	15 minutes v	valk of where
	1000	2000 80	Neither good	2001 100	2000 EC - 00
Ovaliby of facal	Very good	Good	nor bad	Bad	Very bad
Quality of food Choice of food					
Price of food					
Q13: In general, h	1.	you usually li really like food I like food nor dislike food	shopping shopping	shopping for	food?
	. Holdior like i	I dislike food		4	
	l rea	Illy dislike food		1 22	
	7100	, 31011110 1000	skii.ia	5	

Q14: Please indicate how often the following happens to you. Please tick one box in each row.

	Every day	4-6 days per week	1-3 days per week	Once every 2 weeks	One a month or less	Never
You do not have enough food to eat because you can't get to a grocery shop?						
You do not have a main meal and you get through the day by just having a snack or a drink when you feel like it?						
You worry that your food will run out because you do not have enough money to buy more?						

The next section looks at cooking.

	Q15: How much do you like or dislike cooking?
1	I really like cooking
2	I like cooking
3	I neither like nor dislike cooking
4	I dislike cooking
5	I really dislike cooking

Q16: On average, how often do you prepare or cook your main meal of the day from fresh or raw ingredients?

Once a day	¹ Go to Q18
2-3 times per week	2 30 10 018
About once per week	3
2-3 times per month	4 Go to Q17
About once a month	5 GO TO Q17
Less often	6

Q17: Why do you <u>not</u> cook a main meal every day? Please tick all that apply.

	tion an inat appris.
1 Go to Q19	I don't know how to cook at all
1	don't know how to cook a variety of foods or meals
1	Someone else usually cooks for me
1	I don't enjoy cooking
1	I usually eat pre-packed/convenience foods
1	I can't afford it
1 Go to Q18	Lack of cooking facilities
1	Lack of storage facilities
1	I usually eat take-away food
1	Lack of time
1	Other (please specify)

Q18: Where did you learn to cook? Please tick all that apply.					
At school At school		1			
At home		1			
Other (please specify)		1			
Q19: Which of the following describes you? Please tick all that apply.					
I am a vegan (I don't eat meat, fish, dairy or other products derived from animals)	Ш	1			
I am completely vegetarian					
I am mainly vegetarian – I eat fish but not meat	Ш	1			
I eat meat		1			
I am following a strict diet to lose weight		1			
I am on a casual diet to lose weight	Ш	1			
I am on a special diet for medical reasons		1			
I am on a special diet due to allergies					
I am on a special diet for religious reasons					
Q20: Which of the following types of food do you eat regularly (at least 2 per week)? Please tick all that apply. Fresh vegetables/salads		3 da			
Fruit		1			
Eggs		1			
Ready-made meals (heated in the oven/microwave)		1			
Other convenience foods (eg fish fingers, burgers, chips)		1			
Dairy products (milk, cheese, yoghurt)		1			
Meals prepared from raw fresh fish		1			
Meals prepared from raw fresh chicken		1			
Meals prepared from other raw fresh meat		1			

Q21: How often do you buy food from the following outlets? Please tick one box in each row.

	Every day	4-6 times a week	2-3 times a week	Once a week	Less often	Never
Takeaway or fast food outlet (eg fish and chip shops, Chinese takeaway, McDonalds)	1	2	3	4	5	6
University canteen or refectory (hot food)	1	2	3	4	5	6
University sandwich/coffee/snack bar	1	2	3	4	5	6
University shop	1	2	3	4	5	6
Other coffee shop	1	2	3	4	5	6
Other takeaway sandwich outlet	1	2	3	4	5	6
Pub	1	2	3	4	5	6
Mobile food outlet	1	2	3	4	5	6
Sports club	1	2	3	4	5	6
Ready to eat takeaway food from supermarkets	1	2	3	4	5	6
Vending machine	1	2	3	4	5	6

Q22: How often do you ...? Please tick one box in each row.

	Every day	4-6 times a week	2-3 times a week	Less often	Never
Eat breakfast	18-0 /80				
Eat fried food					
Drink alcohol				**	

Q23: Compared to a year ago, how often do you eat or drink the following? Please tick one box in each row.

	More than a year ago	Same as a year ago	Less than a year ago	I never eat or drink this
Foods or drinks containing sugar (eg sweets, cakes, soft drinks)				
Foods containing fat (eg fried food, crisps)				
Fruit				
Vegetables or salad				
Bread, cereals, rice, pasta, potatoes				
Milk and dairy products				
Meat (all types: red, white and processed)				
Fish				
Unsalted nuts, beans, chickpeas, lentils				
Salt in your food				
Alcohol				

Q24: How often do you look at the labels with nutritional information on food?			
Always 1			
Fairly often 2			
Sometimes 3			
Never 4			
Q25: If you were looking at the nutritional information on a jar of salad cream and said the product contained 20g of sugar per 100g, would you think this is a lot of			
little?			
A lot 1			
An acceptable amount 2			
A little 3			
I don't know 4			
Q26: If you were looking at the nutritional information on a box of cornflakes and	ı it		
said the product contained 2g of salt per 100g, would you think this is a lot or a			
little?			
A lot 1			
An acceptable amount 2			
A 1:41 -			
I don't be out			
I don't know4			
007. [6			
Q27: If you were looking at the nutritional information on a packet of digestive biscuits and it said the product contained 20g of fat per 100g, would you think th is a lot or a little?	is		
A 1-4			
An accordable account			
A 1:44 a			
I dow't live and			
I don't know 4			
Q28: How many portions of fruit and vegetables should you eat every day?			
portions per day			
portions per day			