NAME OF HEP: UNIVERSITI TUNKU ABDUL RAHMAN

NAME OF ACCREDITED PORGRAMME: BACHELOR OF INTERNATIONAL BUSINESS (HONOURS)

NO.	NAME OF MICRO-CREDENTIAL	CREDIT			MODE OF	REQUIREMENTS TO ENROL								
		VALUE	ACCEC	ACCECCAENT		AGE	EXPERIENCE	LANGUAGE PROFICIENCY	NUMERACY PROFICIENCY	PREREQUISITES	OTHERS			
			ASSESSMENT CONTINUOUS FINA		FINAL									
			ASSESSMENT	ASSESSMENT										
1	MFPB3113 MICRO-CREDENTIAL: HUBUNG	3	70%	30%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	None	None	None			
					(Blended mode)	and above		Able to demonstrate language						
								proficiency in reading, writing, speaking						
								and listening						
2	MFPB3173 MICRO-CREDENTIAL:	3	70%	30%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	None	None	None			
	MALAYSIAN STUDIES 3				(Blended mode)	and above		Able to demonstrate language						
								proficiency in reading, writing, speaking and listening						
3	UFKE1033 MICRO-CREDENTIAL:	3	40%	60%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
3	BUSINESS ACCOUNTING I	3	40%	00%	(Blended mode)	and above	None	Able to demonstrate language	Basic Knowledge of numbers and	None	None			
					(=:::::::::::::::::::::::::::::::::::::			proficiency in reading, writing, speaking	calculations					
								and listening						
4	UFKH3013 MICRO-CREDENTIAL: E-COMM	3	100%	0%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
					(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and					
								proficiency in reading, writing, speaking	calculations					
								and listening						
5	UFKE1013 MICRO-CREDENTIAL:	3	50%	50%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
	QUANTITATIVE TECHNIQUES I				(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and					
								proficiency in reading, writing, speaking and listening	calculations					
6	UFKN1013 MICRO-CREDENTIAL:	3	60%	40%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
О	CORPORATE AND BUSINESS LAW	3	60%	40%	(Blended mode)	and above	None	Able to demonstrate language	Basic Knowledge of numbers and	None	None			
	CONFORME AND BOSINESS EAV				(Biended mode)	and above		proficiency in reading, writing, speaking	calculations					
								and listening						
7	UFKK1013 MICRO-CREDENTIAL:	3	50%	50%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
	PRINCIPLES OF MARKETING				(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and					
								proficiency in reading, writing, speaking	calculations					
								and listening						
8	MFPB32023 MICRO-CREDENTIAL:	3	60%	40%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	None	None	None			
	ENGLISH FOR BUSINESS				(Blended mode)	and above		Able to demonstrate language						
								proficiency in reading, writing, speaking and listening						
9	UFKB1073 MICRO-CREDENTIAL:	3	40%	60%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	UFKE1033 MICRO-CREDENTIAL:	None			
9	BUSINESS ACCOUNTING II	3	40%	00%	(Blended mode)	and above	None	Able to demonstrate language	Basic Knowledge of numbers and	BUSINESS ACCOUNTING 1	None			
					(=:::::::::::::::::::::::::::::::::::::			proficiency in reading, writing, speaking	calculations					
								and listening						
10	UFKB1113 MICRO-CREDENTIAL:	3	50%	50%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
	INFORMATION SYSTEMS				(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and					
								proficiency in reading, writing, speaking	calculations					
								and listening	- 6.	1				
11	UFKQ1013 MICRO-CREDENTIAL:	3	40%	60%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
	ECONOMICS				(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and					
								proficiency in reading, writing, speaking and listening	calculations					
12	UFKE1023 MICRO-CREDENTIAL:	3	50%	50%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	UFKE1013 MICRO-CREDENTIAL:	None			
12	QUANTITATIVE TECHNIQUES II	,	3070	30/0	(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and	QUANTITATIVE TECHNIQUES I	None			
					(=:=::==== ::::===			proficiency in reading, writing, speaking	calculations					
								and listening						
13	UFKB1011 MICRO-CREDENTIAL: SUN ZI'S	1	100%	0%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None			
	ART OF WAR AND BUSINESS STRATEGIES				(Blended mode)	and above		Able to demonstrate language	Basic Knowledge of numbers and					
								proficiency in reading, writing, speaking	calculations					
								and listening						

14	UFKH1013 MICRO-CREDENTIAL:	3	40%	60%	CONVENTIONAL	18 Years old	None	Proficiency in English - Intermediate	Proficiency Level - Basic	None	None
	MANAGEMENT PRINCIPLES				(Blended mode)	and above		Able to demonstrate language proficiency in reading, writing, speaking and listening	Basic Knowledge of numbers and calculations		
15	MFPB32013 MICRO-CREDENTIAL: BAHASA KEBANGSAAN A	3	70%	30%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
16	UFAE1003 MICRO-CREDENTIAL: INTRODUCTION TO GERMAN LANGUAGE	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
17	UFAH1003 MICRO-CREDENTIAL: INTRODUCTION TO FRENCH	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
18	UFAB2013 MICRO-CREDENTIAL: INTRODUCTION TO JAPANESE	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
19	UFAK1003 MICRO-CREDENTIAL: INTRODUCTION TO TAMIL LANGUAGE	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
20	UFAN1003 MICRO-CREDENTIAL: INTRODUCTION TO THAI LANGUAGE	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
21	UFJB1073 MICRO-CREDENTIAL: COMMUNICATIVE TAMIL FOR HEALTH SCIENCES	3	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
22	UFJB1093 MICRO-CREDENTIAL: INTRODUCTION TO KOREAN	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
23	UFKT1013 MICRO-CREDENTIAL: PRINCIPLES OF INTERNATIONAL BUSINESS	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
24	UFKW1013 MICRO-CREDENTIAL: CROSS CULTURAL MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
25	MFPB33273 MICRO-CREDENTIAL: MARKETING COMMUNICATION	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKK1013 MICRO-CREDENTIAL: PRINCIPLES OF MARKETING	None
26	UFAB2003 MICRO-CREDENTIAL: ENGLISH FOR MANAGEMENT	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
27	UFKB4014 MICRO-CREDENTIAL: INTERNATIONAL HUMAN RESOURCE MANAGEMENT	4	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKT1013 MICRO-CREDENTIAL: PRINCIPLES OF INTERNATIONAL BUSINESS	None
28	UFKK2013 MICRO-CREDENTIAL: BUSINESS RESEARCH	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKE1013 MICRO-CREDENTIAL: QUANTITATIVE TECHNIQUES I UFKE1023 MICRO-CREDENTIAL: QUANTITATIVE TECHNIQUES II	None

29	UKFB2333 MICRO-CREDENTIAL: SOCIAL MEDIA STRATEGIES FOR BUSINESS	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
30	UFKB2413 MICRO-CREDENTIAL: STRATEGIC BRAND MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
31	UFKB4123 MICRO-CREDENTIAL: STRATEGIC MARKETING MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKK1013 MICRO-CREDENTIAL: PRINCIPLES OF MARKETING	None
32	UFKB2113 MICRO-CREDENTIAL: SUPPLY CHAIN MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
33	UFKB3094 MICRO-CREDENTIAL: INTERNATIONAL TRADE THEORY AND POLICY	4	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
34	UFKB2083 MICRO-CREDENTIAL: FINANCIAL MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
35	UFKW2013 MICRO-CREDENTIAL: OPERATIONS MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
36	UKFB2103 MICRO-CREDENTIAL: FINANCIAL TECHNOLOGY	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
37	UFKB3023 MICRO-CREDENTIAL: DIGITAL ENTREPRENEURSHIP	3	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKH3013 MICRO-CREDENTIAL: ECOMMERCE	None
38	UFKK2023 MICRO-CREDENTIAL: ORGANISATIONAL BEHAVIOUR	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
39	UFKN2013 MICRO-CREDENTIAL: CONSUMER BEHAVIOUR	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKK1013 MICRO-CREDENTIAL: PRINCIPLES OF MARKETING	None
40	UFKB2033 MICRO-CREDENTIAL: CUSTOMER RELATIONSHIP MANAGEMENT	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
41	UFKQ2013 MICRO-CREDENTIAL: CUSTOMER RELATIONSHIP MANAGEMENT	3	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
42	UFKT2013 MICRO-CREDENTIAL: INTERNATIONAL MARKETING	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	UFKK1013 MICRO-CREDENTIAL: PRINCIPLES OF MARKETING	None
43	UFPB3123 MICRO-CREDENTIAL: TAMADUN ISLAM DAN TAMADUN ASIA (TITAS)	3	70%	30%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None

44	UFPB3143 MICRO-CREDENTIAL: BAHASA MELAYU KOMUNIKASI 2	3	60%	40%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking	None	None	None
								and listening			
45	UFKB3033 MICRO-CREDENTIAL: CORPORATE GOVERNANCE	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
46	UFAB3033 MICRO-CREDENTIAL: PUBLIC SPEAKING AND ORAL PRESENTATION	3	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
47	UFJB1033 MICRO-CREDENTIAL: UNDERSTANDING POLITICS: STATE, NATION AND GOVERNMENT	3	50%	50%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
48	UFKE3053 MICRO-CREDENTIAL: FINANCIAL MARKETS AND REGULATIONS	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
49	UFKE3033 MICRO-CREDENTIAL: LEADERSHIP AND TEAM BUILDING	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
50	MFPB34012 MICRO-CREDENTIAL: SOCIAL ENTREPRENEURSHIP PROJECT	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
51	MFPB34022 MICRO-CREDENTIAL: ARTS AND CULTURAL PERFORMANCE	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
52	MFPB34032 MICRO-CREDENTIAL: COMMUNITY PROJECT	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
53	MFPB34042 MICRO-CREDENTIAL: LANGUAGE, CULTURE AND SOCIAL STUDY ABROAD	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
54	MFPB34052 MICRO-CREDENTIAL: TEAM WORK AND COLLABORATIVE PROJECT	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
55	MFPB34062 MICRO-CREDENTIAL: ART, CRAFT, AND DESIGN	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
56	MFPB34072 MICRO-CREDENTIAL: WORK ETHICS AND EQ	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
57	MFPB34112 MICRO-CREDENTIAL: WORK ETHICS AND EQ	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None
58	MFPB34152 MICRO-CREDENTIAL: LEADERSHIP AND TEAMBUILDING	2	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	None	None	None

59	UFKB4024 MICRO-CREDENTIAL: MULTINATIONAL FINANCE	4	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
60	UFKB4034 MICRO-CREDENTIAL: GLOBAL BUSINESS STRATEGY	4	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
61	UFKB3014 MICRO-CREDENTIAL: INTERNATIONAL LOGISTICS	4	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
62	UFKK3013 MICRO-CREDENTIAL: STRATEGIC MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
63	UFKB1203 MICRO-CREDENTIAL: INTERNATIONAL BUSINESS ENVIRONMENT STUDIES	3	100%	0%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
63	UFKE2043 MICRO-CREDENTIAL: INTERNATIONAL BUSINESS LAW	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
63	UFKH3053 MICRO-CREDENTIAL: LAW OF ASEAN	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None
63	UFKH2023 MICRO-CREDENTIAL: INTERNATIONAL MANAGEMENT	3	40%	60%	CONVENTIONAL (Blended mode)	18 Years old and above	None	Proficiency in English - Intermediate Able to demonstrate language proficiency in reading, writing, speaking and listening	Proficiency Level - Basic Basic Knowledge of numbers and calculations	None	None