

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 1	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	10/10/2021								
Mon	11/10/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Tue	12/10/2021	Preparation Time	Introduction & Practical Application of Epidemiology (L) [NMY]	Preparation Time	Preparation Time		Natural history of diseases & levels of prevention (L) [NMY]	Preparation Time	Natural history of diseases & levels of prevention (L) [NMY]
Wed	13/10/2021	Preparation Time	Introduction to Biostatistics (L) [SAAH]	Self Study	Preparation Time		Descriptive Statistics (L) [SAAH]	Descriptive Statistics (T) [SAAH]	Self Study
Thu	14/10/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

Week 2	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	17/10/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	18/10/2021	Preparation Time	Introduction to SPSS (L) [SAAH]	Introduction to SPSS (T) [SAAH]	Self Study		Self Study	Self Study	Preparation Time
Tue	19/10/2021	Maulidur Rasul					Maulidur Rasul		
Wed	20/10/2021	Preparation Time	Models of disease causation (L) [NMY]	Preparation Time	Models of disease causation (L) [NMY]		Self Study	Self Study	Preparation Time
Thu	21/10/2021	Preparation Time	Probability Theory (L) [AKG]	Preparation Time	Probability Theory (L) [AKG]		Self Study	Self Study	Self Study

**TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022**

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 3	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	24/10/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	25/10/2021	Preparation Time	Normal , Binomial and Poisson Distribution (L) [AKG]	Preparation Time	Normal , Binomial and Poisson Distribution (L) [AKG]		Self Study	Self Study	Preparation Time
Tue	26/10/2021	Preparation Time	Measurements of disease occurrence (L) [NMY]	Preparation Time	Measurements of disease occurrence (L) [NMY]		Measurements of disease occurrence (T) [NMY]	Measurements of disease occurrence (T) [NMY]	Self Study
Wed	27/10/2021	Preparation Time	Sampling Distributions (L) [AKG]	Preparation Time	Sampling Distributions (L) [AKG]		Self Study	Self Study	Preparation Time
Thu	28/10/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

Week 4	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	31/10/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	1/11/2021	Preparation Time	Hypothesis testing (L) [KYC]	Preparation Time	Hypothesis testing (L) [KYC]		Estimation (L) [KYC]	Preparation Time	Estimation (L) [KYC]
Tue	2/11/2021	Preparation Time	Independent t-test (L) [NMY]	Independent t-test (T) [NMY]	Preparation Time		Paired t-test (L) [NMY]	Paired t-test (T) [NMY]	Preparation Time
Wed	3/11/2021	Preparation Time	One Way ANOVA test (L) [NMY]	One Way ANOVA test (T) [NMY]	Preparation Time		Self Study	Self Study	Preparation Time
Thu	4/11/2021	Deepavali					Deepavali		

**TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022**

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 5	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM	
Sun	7/11/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time	
Mon	8/11/2021	Preparation Time	Non parametric tests (L) [KYC]	Non parametric tests (T) [KYC]	Self Study		Self Study	Preparation Time	Preparation Time	
Tue	9/11/2021	Preparation Time	Standardization of rates (L) [SAAH]	Standardization of rates (T) [SAAH]	Preparation Time		Self Study	Self Study	Preparation Time	
Wed	10/11/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time	
Thu	11/11/2021	Hari Keputeraan Sultan Kelantan					Hari Keputeraan Sultan Kelantan			

Week 6	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	14/11/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	15/11/2021	Preparation Time	Correlation (L) [NMY]	Correlation (T) [NMY]	Preparation Time		Simple linear regression (L) [NMY]	Simple linear regression (T) [NMY]	Self Study
Tue	16/11/2021	Preparation Time	Pearson's Chi square & Fischer's Exact tests (L) [SAAH]	Pearson's Chi square & Fischer's Exact tests (T) [SAAH]	Preparation Time		Mc Nemar test (L) [SAAH]	Mc Nemar test (T) [SAAH]	Preparation Time
Wed	17/11/2021	Preparation Time	Mantel Haenzel test (L) [SAAH]	Mantel Haenzel test (T) [SAAH]	Preparation Time		Self Study	Self Study	Self Study
Thu	18/11/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 7	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	21/11/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	22/11/2021	Epidemiological study design: Descriptive (L) [NSB]	Epidemiological study design: Descriptive (T) [NSB]	Self Study	Self Study		Self Study	Self Study	Preparation Time
Tue	23/11/2021	Epidemiological study design: Observational (L) [NSB]	Preparation Time	Epidemiological study design: Observational (L) [NSB]	Preparation Time		Epidemiological study design: Observational (T) [NSB]	Epidemiological study design: Observational (T) [NSB]	Preparation Time
Wed	24/11/2021	Preparation Time	Sample size determination (L) [SA]	Preparation Time	Sample size determination (L) [SA]		Sample size determination (T) [SA]	Preparation Time	Sample size determination (T) [SA]
Thu	25/11/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

Week 8	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	28/11/2021	Mid semester break (28/11/2020 – 4/12/2020)					Mid semester break (28/11/2020 – 4/12/2020)		
Mon	29/11/2021								
Tue	30/11/2021								
Wed	1/12/2021								
Thu	2/12/2021								

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 9	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	5/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	6/12/2021	Concept & application of multivariate modeling (L) [NSB]	Concept & application of multivariate modeling (T) [NSB]	Self Study	Preparation Time		Confounding & interaction (L) [NSB]	Confounding & interaction (T) [NSB]	Preparation Time
Tue	7/12/2021	Epidemiological study design: Experimental (Clinical & Community Trials) (L) [NSB]	Preparation Time	Epidemiological study design: Experimental (Clinical & Community Trials) (L) [NSB]	Epidemiological study design: Experimental (Clinical & Community Trials) (T) [NSB]		Self Study	Self Study	Preparation Time
Wed	8/12/2021	Preparation Time	Simple logistic regression (L) [NMY]	Simple logistic regression (T) [NMY]	Self Study		Self Study	Self Study	Preparation Time
Thu	9/12/2021	Preparation Time	Multiple logistic regression (L) [NMY]	Preparation Time	Multiple logistic regression (L) [NMY]		Multiple logistic regression (T) [NMY]	Multiple logistic regression (T) [NMY]	Self Study

Week 10	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	12/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	13/12/2021	Preparation Time	Multiple linear regression (L) [SA]	Preparation Time	Multiple linear regression (L) [SA]		Multiple linear regression (T) [SA]	Multiple linear regression (T) [SA]	Self Study
Tue	14/12/2021	Preparation Time	Measurements of risk and association (L) [SA]	Preparation Time	Measurements of risk and association (L) [SA]		Self Study	Self Study	Self Study
Wed	15/12/2021	Preparation Time	Bias & errors (L) [SA]	Preparation Time	Bias & errors (L) [SA]		Self Study	Self Study	Self Study
Thu	16/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

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Week 11	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	19/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	20/12/2021	Preparation Time	Systematic Review (L) [KYC]	Preparation Time	Systematic Review (L) [KYC]		Self Study	Self Study	Preparation Time
Tue	21/12/2021	Preparation Time	Sampling methods (L) [NMY]	Sampling methods (T) [NMY]	Preparation Time		Self Study	Self Study	Preparation Time
Wed	22/12/2021	Preparation Time	Meta-analysis (L) [KYC]	Preparation Time	Meta-analysis (L) [KYC]		Self Study	Preparation Time	Preparation Time
Thu	23/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

Week 12	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	26/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Preparation Time	Preparation Time
Mon	27/12/2021	Preparation Time	Multifactorial ANOVA (L) [AKG]	Preparation Time	Multifactorial ANOVA (L) [AKG]		Multifactorial ANOVA (T) [AKG]	Multifactorial ANOVA (T) [AKG]	Preparation Time
Tue	28/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Wed	29/12/2021	Preparation Time	Analysis of covariance (ANCOVA) (L) [AKG]	Preparation Time	Analysis of covariance (ANCOVA) (L) [AKG]		Analysis of covariance (ANCOVA) (T) [AKG]	Analysis of covariance (ANCOVA) (T) [AKG]	Self Study
Thu	30/12/2021	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 13	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	02/01/2022	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	03/01/2022	Self Study	Introduction to survival analysis (L) [SAAH]	Self Study	Self Study		Self Study	Self Study	Preparation Time
Tue	04/01/2022	Preparation Time	Kaplan Meier Survival Curve, Logrank test (L) [SAAH]	Preparation Time	Kaplan Meier Survival Curve, Logrank test (L) [SAAH]		Kaplan Meier Survival Curve, Logrank test (T) [SAAH]	Kaplan Meier Survival Curve, Logrank test (T) [SAAH]	Self Study
Wed	05/01/2022	Preparation Time	Lifetable analysis (L) [SAAH]	Preparation Time	Lifetable analysis (L) [SAAH]		Lifetable analysis (T) [SAAH]	Lifetable analysis (T) [SAAH]	Preparation Time
Thu	06/01/2022	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

Week 14	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	09/01/2022	Self Study	Self Study	Self Study	Self Study		Self Study	Preparation Time	Preparation Time
Mon	10/01/2022	Preparation Time	Cox Proportional Hazards Regression (L) [SAAH]	Preparation Time	Cox Proportional Hazards Regression (L) [SAAH]		Cox Proportional Hazards Regression (T) [SAAH]	Cox Proportional Hazards Regression (T) [SAAH]	Self Study
Tue	11/01/2022	Repeated measures ANOVA (L) [NSB]	Preparation Time	Repeated measures ANOVA (L) [NSB]	Preparation Time		Repeated measures ANOVA (T) [NSB]	Repeated measures ANOVA (T) [NSB]	Preparation Time
Wed	12/01/2022	Repeated measures ANCOVA (L) [NSB]	Preparation Time	Repeated measures ANCOVA (L) [NSB]	Preparation Time		Repeated measures ANCOVA (T) [NSB]	Repeated measures ANCOVA (T) [NSB]	Self Study
Thu	13/01/2022	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 15	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	16/01/2022	Exploratory Factor Analysis (L) [KYC]	Preparation Time	Exploratory Factor Analysis (T) [KYC]	Exploratory Factor Analysis (T) [KYC]		Self Study	Preparation Time	Preparation Time
Mon	17/01/2022	Confirmatory Factor Analysis (L) [KYC]	Preparation Time	Confirmatory Factor Analysis (T) [KYC]	Confirmatory Factor Analysis (T) [KYC]		Self Study	Self Study	Preparation Time
Tue	18/01/2022	Preparation Time	Introduction to Structural Equation Modelling (L) [KYC]	Introduction to Structural Equation Modelling (T) [KYC]	Self Study		Self Study	Self Study	Preparation Time
Wed	19/01/2022	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Thu	20/01/2022	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

Week 16	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	23/01/2022	Revision Week (23/01/2022 - 30/01/2022)					Revision Week (23/01/2022 - 30/01/2022)		
Mon	24/01/2022								
Tue	25/01/2022								
Wed	26/01/2022								
Thu	27/01/2022								



## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

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Week 17	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	30/01/2022	Revision					Revision		
Mon	31/01/2022	Examination weeks (31/01/2022 – 20/02/2022)					Examination weeks (31/01/2022 – 20/02/2022)		
Tue	01/02/2022	Chinese New Year					Chinese New Year		
Wed	02/02/2022								
Thu	03/02/2022	Examination weeks (31/01/2022 – 20/02/2022)					Examination weeks (31/01/2022 – 20/02/2022)		

Week 18	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	06/02/2022	Examination weeks (31/01/2022 – 20/02/2022)					Examination weeks (31/01/2022 – 20/02/2022)		
Mon	07/02/2022								
Tue	08/02/2022								
Wed	09/02/2022								
Thu	10/02/2022								

## TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2021/2022

Biostatistics & Research Methodology Unit, School of Medical Sciences, USM

Week 19	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	13/02/2022	Examination weeks (31/01/2022 – 20/02/2022)					Examination weeks (31/01/2022 – 20/02/2022)		
Mon	14/02/2022								
Tue	15/02/2022								
Wed	16/02/2022								
Thu	17/02/2022								

Week 20 – 23	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Week 20 – 23 – Mid-Semester Break (21/02/2022 – 20/03/2022)						Week 20 – 23 – Mid-Semester Break (21/02/2022 – 20/03/2022)		

MSc (MEDICAL STATISTICS) YEAR 1, SEMESTER 1, 2021/2022						
No.	Basic Statistics (GBT 501/4)	Lecturer	Date	Contact Hours		
				Lecture (L)	Tutorial (T)	Total
1	Introduction to Biostatistics	SAAH	13/10/2021	1	-	1
2	Descriptive Statistics	SAAH	13/10/2021	1	1	2
3	Introduction to SPSS	SAAH	18/10/2021	1	1	2
4	Probability Theory	AKG	21/10/2021	2	-	2
5	Normal , Binomial and Poisson Distribution	AKG	25/10/2021	2	-	2
6	Sampling Distributions	AKG	27/10/2021	2	-	2
7	Hypothesis testing	KYC	01/11/2021	2	-	2
8	Estimation	KYC	01/11/2021	2	-	2
9	Independent t test	NMY	02/11/2021	1	1	2
10	Paired t test	NMY	02/11/2021	1	1	2
11	One Way ANOVA test	NMY	03/11/2021	1	1	2
12	Non parametric tests	KYC	08/11/2021	1	1	2
13	Simple logistic regression	NMY	09/12/2021	1	1	2
14	Correlation	NMY	15/11/2021	1	1	2
15	Simple linear regression	NMY	15/11/2021	1	1	2
16	Pearson's Chi square & Fischer's Exact tests	SAAH	16/11/2021	1	1	2
17	Mc Nemar test	SAAH	16/11/2021	1	1	2
18	Mantel Haenzel test	SAAH	17/11/2021	1	1	2
19	Sample size determination	SA	24/11/2021	2	2	4
				25	14	39

### Lecturers involved

Dr. Siti Azrin Ab. Hamid  
 Assoc. Prof. Dr. Najib Majdi Yaacob  
 Assoc. Prof. Dr. Sarimah Abdullah

SAAH  
 NMY  
 SA

Dr. Kueh Yee Cheng  
 Dr. Anis Kausar Ghazali


KYC  
 AKG

### **Prepared by,**

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### **Certified by,**

  
 Dr. Najib Majdi bin Yaacob (MPM: 41754, NSR: 134534)  
 MD, MPH, DrPH (Epidemiology) (USM)  
 Pakar Perubatan Kesihatan Awam, Pensyarah Perubatan DU54  
 Penyelaras Unit Biostatistik & Metodologi Penyelidikan  
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 Unit Coordinator,  
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 16150 Kubang Kerian Kelantan  
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MSc (MEDICAL STATISTICS) YEAR 1, SEMESTER 1, 2021/2022						
No.	Intermediate Statistics (GBT 502/4)	Lecturer	Date	Contact Hours		
				Lecture (L)	Tutorial (T)	Total
1	Concept and application of multivariate modeling	NSB	06/12/2021	1	1	2
2	Confounding & interaction	NSB	06/12/2021	1	1	2
	Multiple logistic regression	NMY	09/12/2021	2	2	4
3	Multiple linear regression	SA	13/12/2021	2	2	4
4	Multifactorial ANOVA	AKG	27/12/2021	2	2	4
	Analysis of covariance (ANCOVA)	AKG	29/12/2021	2	2	4
5	Introduction to survival analysis	SAAH	03/01/2022	1	-	1
6	Kaplan Meier Survival Curve, Logrank test	SAAH	04/01/2022	2	2	4
7	Lifetable analysis	SAAH	05/01/2022	2	2	4
8	Cox Proportional Hazards Regression	SAAH	10/01/2022	2	2	4
9	Repeated measures ANOVA	NSB	11/01/2022	2	2	4
10	Repeated measures ANCOVA	NSB	12/01/2022	2	2	4
11	Exploratory Factor Analysis	KYC	16/01/2022	1	2	3
12	Confirmatory Factor Analysis	KYC	17/01/2022	1	2	3
13	Introduction to Structural Equation Modelling	KYC	18/01/2022	1	1	2
				24	25	49

### Lecturers involved

Prof. Dr. Norsa'adah Bachok

Dr. Kueh Yee Cheng

Assoc. Prof. Dr. Sarimah Abdullah

NSB

KYC

SA

Dr. Siti Azrin Ab Hamid

Dr. Najib Majdi Yaacob

Dr. Anis Kausar Ghazali

SAAH

NMY

AKG


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MSc (MEDICAL STATISTICS) YEAR 1, SEMESTER 1, 2021/2022						
No.	Principles of Epidemiology (GBT 503/2)	Lecturer	Date	Contact Hours		
				Lecture (L)	Tutorial (T)	Total
1	Introduction & Practical Application of Epidemiology	NMY	12/10/2021	1	-	1
2	Natural history of diseases & levels of prevention	NMY	12/10/2021	2	-	2
3	Models of disease causation	NMY	20/10/2021	2	-	2
4	Measurements of disease occurrence	NMY	26/10/2021	2	2	4
5	Standardization of rates	SAAH	9/11/2021	1	1	2
6	Epidemiological study design: Descriptive	NSB	22/11/2021	1	1	2
7	Epidemiological study design: Observational	NSB	23/11/2021	2	2	4
8	Epidemiological study design: Experimental (Clinical & Community Trials)	NSB	07/12/2021	2	1	3
9	Measurements of risk and association	SA	14/12/2021	2	-	2
10	Bias & errors	SA	15/12/2021	2	-	2
11	Systematic Review	KYC	20/12/2021	2	-	2
12	Sampling methods	NMY	21/12/2021	1	1	2
13	Meta-analysis	KYC	22/12/2021	2	-	2
				22	8	30

### Lecturers involved

Prof. Dr. Norsahadah Bachok  
 Dr. Kueh Yee Cheng  
 Assoc. Prof. Dr. Sarimah Abdullah

NSB  
 KYC  
 SA

Dr. Siti Azrin Ab Hamid  
 Dr. Najib Majdi Yaacob  
 Dr. Anis Kausar Ghazali

SAAH  
 NMY  
 AKG

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