

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	8/9/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	9/9/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Tue	10/9/2019	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	11/9/2019	Preparation Time	Introduction to Biostatistics (L) [SAAH]	Self Study	Preparation Time		Descriptive Statistics (L) [SAAH]	Descriptive Statistics (T) [SAAH]	Self Study
Thu	12/9/2019	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	15/9/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	16/9/2019	Hari Malaysia					Hari Malaysia		
Tue	17/9/2019	Preparation Time	Models of disease causation (L) [NMY]	Preparation Time	Models of disease causation (L) [NMY]		Self Study	Self Study	Preparation Time
Wed	18/9/2019	Preparation Time	Introduction to SPSS (L) [SAAH]	Introduction to SPSS (T) [SAAH]	Self Study		Self Study	Self Study	Preparation Time
Thu	19/9/2019	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, 2019/2020

Unit of Biostatistics & Research Methodology, 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	22/9/2019	Preparation Time	Normal , Binomial and Poisson Distribution (L) [AKG]	Preparation Time	Normal , Binomial and Poisson Distribution (L) [AKG]		Self Study	Self Study	Preparation Time
Mon	23/9/2019	Preparation Time	Sampling Distributions (L) [AKG]	Preparation Time	Sampling Distributions (L) [AKG]		Self Study	Self Study	Preparation Time
Tue	24/9/2019	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	25/9/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Thu	26/9/2019	Preparation Time	Hypothesis testing (L) [NMY]	Preparation Time	Hypothesis testing (L) [NMY]		Estimation (L) [NMY]	Preparation Time	Estimation (L) [NMY]

Week 4	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	29/9/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	30/9/2019	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
Tue	1/10/2019	Preparation Time	One Way ANOVA test (L) [NMY]	One Way ANOVA test (T) [NMY]	Preparation Time		Self Study	Self Study	Preparation Time
Wed	2/10/2019	Preparation Time	Measurements of risk and association (L) [SA]	Preparation Time	Measurements of risk and association (L) [SA]		Self Study	Self Study	Self Study
Thu	3/10/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	6/10/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	7/10/2019	Preparation Time	Standardization of rates (L) [SAAH]	Standardization of rates (T) [SAAH]	Preparation Time		Self Study	Self Study	Preparation Time
Tue	8/10/2019	Preparation Time	Correlation (L) [NMY]	Correlation (T) [NMY]	Preparation Time		Simple linear regression (L) [NMY]	Simple linear regression (T) [NMY]	Self Study
Wed	9/10/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Thu	10/10/2019	Preparation Time	Non parametric tests (L) [NMY]	Non parametric tests (T) [NMY]	Self Study		Self Study	Preparation Time	Preparation Time

Week 6	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	13/10/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	14/10/2019	Epidemiological study design: Descriptive (L) [NSB]	Epidemiological study design: Descriptive (T) [NSB]	Self Study	Self Study		Self Study	Self Study	Preparation Time
Tue	15/10/2019	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	16/10/2019	Preparation Time	Mantel Haenzel test (L) [SAAH]	Mantel Haenzel test (T) [SAAH]	Preparation Time		Self Study	Self Study	Self Study
Thu	17/10/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	20/10/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	21/10/2019	Preparation Time	Simple logistic regression (L) [NMY]	Simple logistic regression (T) [NMY]	Self Study		Self Study	Self Study	Preparation Time
Tue	22/10/2019	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	23/10/2019	Preparation Time	Sample size determination (L) [NMY]	Preparation Time	Sample size determination (L) [NMY]		Sample size determination (T) [NMY]	Preparation Time	Sample size determination (T) [NMY]
Thu	24/10/2019	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	27/10/2019	Mid semester break (25/10/2019 – 2/11/2019)					Mid semester break (25/10/2019 – 2/11/2019)		
Mon	28/10/2019								
Tue	29/10/2019								
Wed	30/10/2019								
Thu	31/10/2019								

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	3/11/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	4/11/2019	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	5/11/2019	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	6/11/2019	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
Thu	7/11/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time

Week 10	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	10/11/2019	Replacement holiday Maulidur rasul					Replacement holiday Maulidur rasul		
Mon	11/11/2019	Hari Keputeraan Sultan Kelantan					Hari Keputeraan Sultan Kelantan		
Tue	12/11/2019								
Wed	13/11/2019	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
Thu	14/11/2019	Preparation Time	Bias & errors (L) [SA]	Preparation Time	Bias & errors (L) [SA]		Self Study	Self Study	Self Study

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

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

Week 11	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	17/11/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Mon	18/11/2019	Self Study	Introduction to survival analysis (L) [SAAH]	Self Study	Self Study		Self Study	Self Study	Preparation Time
Tue	19/11/2018	Preparation Time	Sampling methods (L) [NMY]	Sampling methods (T) [NMY]	Preparation Time		Self Study	Self Study	Preparation Time
Wed	20/11/2019	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
Thu	21/11/2019	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	24/11/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Preparation Time	Preparation Time
Mon	25/11/2019	Preparation Time	Lifetable analysis (L) [SAAH]	Preparation Time	Lifetable analysis (L) [SAAH]		Lifetable analysis (T) [SAAH]	Lifetable analysis (T) [SAAH]	Preparation Time
Tue	26/11/2019	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
Wed	27/11/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Thu	28/11/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	1/12/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study
Mon	2/12/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Tue	3/12/2019	Preparation Time	Systematic Review (L) [NMY]	Preparation Time	Systematic Review (L) [NMY]		Self Study	Self Study	Preparation Time
Wed	4/12/2019	Preparation Time	Multifactorial ANOVA (L) [SA]	Preparation Time	Multifactorial ANOVA (L) [SA]		Multifactorial ANOVA (T) [SA]	Multifactorial ANOVA (T) [SA]	Preparation Time
Thu	5/12/2019	Preparation Time	Analysis of covariance (ANCOVA) (L) [SA]	Preparation Time	Analysis of covariance (ANCOVA) (L) [SA]		Analysis of covariance (ANCOVA) (T) [SA]	Analysis of covariance (ANCOVA) (T) [SA]	Self Study

Week 14	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	8/12/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Preparation Time	Preparation Time
Mon	9/12/2019	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
Tue	10/12/2019	Preparation Time	Meta-analysis (L) [NMY]	Preparation Time	Meta-analysis (L) [NMY]		Self Study	Preparation Time	Preparation Time
Wed	11/12/2019	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	12/12/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Self Study

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	15/12/2019	Exploratory Factor Analysis (L) [SAAH]	Preparation Time	Exploratory Factor Analysis (T) [SAAH]	Exploratory Factor Analysis (T) [SAAH]		Self Study	Preparation Time	Preparation Time
Mon	16/12/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Tue	17/12/2019	Confirmatory Factor Analysis (L) [SAAH]	Preparation Time	Confirmatory Factor Analysis (T) [SAAH]	Confirmatory Factor Analysis (T) [SAAH]		Self Study	Self Study	Preparation Time
Wed	18/12/2019	Self Study	Self Study	Self Study	Self Study		Self Study	Self Study	Preparation Time
Thu	19/12/2019	Preparation Time	Introduction to Structural Equation Modelling (L) [SAAH]	Introduction to Structural Equation Modelling (T) [SAAH]	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	22/12/2019	Revision Week (20/12/2019 - 28/12/2019)					Revision Week Revision Week (20/12/2019 - 28/12/2019)		
Mon	23/12/2019								
Tue	24/12/2019								
Wed	25/12/2019	Hari Krismas					Hari Krismas		
Thu	26/12/2019	Revision Week Revision Week (20/12/2019 - 28/12/2019))					Revision Week Revision Week (20/12/2019 - 28/12/2019)		

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

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

Week 17	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	29/12/2019	Examination weeks (29/12/2019 – 16/1/2020)					Examination weeks (29/12/2019 – 16/1/2020))		
Mon	30/12/2019								
Tue	31/12/2019								
Wed	1/1/2020								
Thu	2/1/2020								

Week 18	Date	08:30AM	09:30AM	10:30AM	11:30AM	12:30PM	02:00PM	03:00PM	04:00PM
Sun	5/1/2020	Examination weeks (29/12/2019 – 16/1/2020)					Examination weeks (29/12/2019 – 16/1/2020)		
Mon	6/1/2020								
Tue	7/1/2020								
Wed	8/1/2020								
Thu	9/1/2020								

TIME TABLE FOR MSc (MEDICAL STATISTICS), SEMESTER 1, 2019/2020

Unit of Biostatistics & Research Methodology, 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	12/1/2020	Examination weeks (29/12/2019 – 16/1/2020)					Examination weeks (29/12/2019 – 16/1/2020)		
Mon	13/1/2020								
Tue	14/1/2020								
Wed	15/1/2020								
Thu	16/1/2020								

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 (17/1/2020 – 15/2/2020)						Week 20 – 23 – Mid-Semester Break (17/1/2020 – 15/2/2020)		

MSc (MEDICAL STATISTICS) YEAR 1, SEMESTER 1, 2019/2020						
No.	Basic Statistics (GBT 501/4)	Lecturer	Date	Contact Hours		
				Lecture (L)	Tutorial (T)	Total
1	Introduction to Biostatistics	SAAH	11/9/2019	1	-	1
2	Descriptive Statistics	SAAH	11/9/2019	1	1	2
3	Introduction to SPSS	SAAH	18/9/2019	1	1	2
4	Probability Theory	AKG	19/9/2019	2	-	2
5	Normal , Binomial and Poisson Distribution	AKG	22/9/2019	2	-	2
6	Sampling Distributions	AKG	23/9/2019	2	-	2
7	Hypothesis testing	NMY	26/9/2019	2	-	2
8	Estimation	NMY	26/9/2019	2	-	2
9	Independent t test	NMY	30/9/2019	1	1	2
10	Paired t test	NMY	30/9/2019	1	1	2
11	One Way ANOVA test	NMY	1/10/2019	1	1	2
12	Correlation	NMY	8/10/2019	1	1	2
13	Simple linear regression	NMY	8/10/2019	1	1	2
14	Non parametric tests	NMY	10/10/2019	1	1	2
15	Pearson's Chi square & Fischer's Exact tests	SAAH	15/10/2019	1	1	2
16	Mc Nemar test	SAAH	15/10/2019	1	1	2
17	Mantel Haenzel test	SAAH	16/10/2019	1	1	2
18	Simple logistic regression	NMY	21/10/2019	1	1	2
19	Sample size determination	NMY	23/10/2019	2	2	4
				25	14	39

Lecturers involved

Dr. Siti Azrin Ab. Hamid
Dr. Najib Majdi Yaacob

SAAH
NMY

Dr. Anis Kausar Ghazali

AKG

Prepared by,

.....
(Dr. Siti Azrin Ab. Hamid)
Year 1 MSc Medical Statistics Coordinator,
Unit of Biostatistics & Research Methodology,
School of Medical Sciences, USM

Certified by,

.....
(Assoc. Prof. Dr. Sarimah Abdullah)
Unit Coordinator,
Unit of Biostatistics & Research Methodology,
School of Medical Sciences, USM

MSc (MEDICAL STATISTICS) YEAR 1, SEMESTER 1, 2019/2020						
No.	Intermediate Statistics (GBT 502/4)	Lecturer	Date	Contact Hours		
				Lecture (L)	Tutorial (T)	Total
1	Concept and application of multivariate modeling	NSB	4/11/2019	1	1	2
2	Confounding & interaction	NSB	4/11/2019	1	1	2
3	Multiple linear regression	SA	6/11/2019	2	2	4
4	Multiple logistic regression	NMY	13/11/2019	2	2	4
5	Introduction to survival analysis	SAAH	18/11/2019	1	-	1
6	Kaplan Meier Survival Curve, Logrank test	SAAH	20/11/2019	2	2	4
7	Lifetable analysis	SAAH	25/11/2019	2	2	4
8	Cox Proportional Hazards Regression	SAAH	26/11/2019	2	2	4
9	Multifactorial ANOVA	SA	4/12/2019	2	2	4
10	Analysis of covariance (ANCOVA)	SA	5/12/2019	2	2	4
11	Repeated measures ANOVA	NSB	9/12/2019	2	2	4
12	Repeated measures ANCOVA	NSB	11/12/2019	2	2	4
13	Exploratory Factor Analysis	SAAH	15/12/2019	1	2	3
14	Confirmatory Factor Analysis	SAAH	17/12/2019	1	2	3
15	Introduction to Structural Equation Modelling	SAAH	19/12/2019	1	1	2
				24	25	49

Lecturers involved

Prof. Dr. Norsa'adah Bachok
Assoc. Prof. Dr. Sarimah Abdullah

NSB
SA

Dr. Siti Azrin Ab Hamid
Dr. Najib Majdi Yaacob

SAAH
NMY

Prepared by,

.....
(Dr. Siti Azrin Ab. Hamid)
Year 1 MSc Medical Statistics Coordinator,
Unit of Biostatistics & Research Methodology,
School of Medical Sciences, USM

Certified by,

.....
(Assoc. Prof. Dr. Sarimah Abdullah)
Unit Coordinator,
Unit of Biostatistics & Research Methodology,
School of Medical Sciences, USM

MSc (MEDICAL STATISTICS) YEAR 1, SEMESTER 1, 2019/2020						
No.	Principles of Epidemiology (GBT 503/2)	Lecturer	Date	Contact Hours		
				Lecture (L)	Tutorial (T)	Total
1	Introduction & Practical Application of Epidemiology	NMY	10/9/2019	1	-	1
2	Natural history of diseases & levels of prevention	NMY	10/9/2019	2	-	2
3	Models of disease causation	NMY	17/9/2019	2	-	2
4	Measurements of disease occurrence	NMY	24/9/2019	2	2	4
5	Measurements of risk and association	SA	2/10/2019	2	-	2
6	Standardization of rates	SAAH	7/10/2019	1	1	2
7	Epidemiological study design: Descriptive	NSB	14/10/2019	1	1	2
8	Epidemiological study design: Observational	NSB	22/10/2019	2	2	4
9	Epidemiological study design: Experimental (Clinical & Community Trials)	NSB	5/11/2019	2	1	3
10	Sampling methods	NMY	19/11/2019	1	1	2
11	Bias & errors	SA	14/11/2019	2	-	2
12	Systematic Review	NMY	3/12/2019	2	-	2
13	Meta-analysis	NMY	10/12/2019	2	-	2
				22	8	30

Lecturers involved

Prof. Dr. Norsa'adah Bachok
Assoc. Prof. Dr. Sarimah Abdullah

NSB
SA

Dr. Siti Azrin Ab. Hamid
Dr. Najib Majdi Yaacob

SAAH
NMY

Prepared by,

.....
(Dr. Siti Azrin Ab. Hamid)
Year 1 MSc Medical Statistics Coordinator,
Unit of Biostatistics & Research Methodology,
School of Medical Sciences, USM

Certified by,

.....
(Assoc. Prof. Dr. Sarimah Abdullah)
Unit Coordinator,
Unit of Biostatistics & Research Methodology,
School of Medical Sciences, USM