



Time Table Semester I Academic Session 2022/2023

M.Sc (Transfusion Science) - TTS

Teaching and Learning venue:

Lecture Hall/Tutorial Room, Block C, Advanced Medical and Dental Institute, SAINS@BERTAM

Hospital Kepala Batas, Jalan Bertam 2, 13200 Kepala Batas, Pulau Pinang

Research venue:

Animal Research Centre (ARC), Advanced Medical and Dental Institute

Contact Person:

- | | | |
|-------------------------------|------------|--|
| 1. Mr. Yusmadi Norashid | 04-5622352 | E-mail: yusmadi@usm.my |
| 2. Mdm. Nur Anis Syamimi Azmi | 04-5622141 | E-mail: anissyamimi@usm.my |
| 3. Mdm. Nor Hidayah Mhd Nasir | 04-5622210 | E-mail: hidayahnasir@usm.my |

Module Coordinators

| Code / Type | Title | Coordinator | Tel Number | E-mail |
|---------------------|---|--|-------------|--|
| TMR 501 Core (T) | Genomics and Medicine | Assoc. Prof. Datin Dr. Shahrul Bariyah Binti Sahul Hamid | 04-5622571 | shahrulbariyah@usm.my |
| TMR 504 Core (T) | Professional and Research Skills | Dr. Mohammad Syamsul Reza Harun | 04-5622101 | mosyamsulre@usm.my |
| TTS 502 Core (T) | Principles of Transfusion and Transplantation Science | Dr. Rafeezul Bin Mohamed (RAF) | +6045622541 | rafeezul@usm.my |
| TTS 507 Core (T) | Research | Dr. Norfarazieda Hassan (NH) | +6045622542 | fara.hassan@usm.my |

List of Academicians

| TTS502 PRINCIPLES OF TRANSFUSION AND TRANSPLANTATION SCIENCE | | | |
|--|--|------------------------------------|--|
| Lecturer | E-mail | Lecturer | E-mail |
| Dr. Ahzad Hadi Bin Ahmad (AHA) | ahzad.h.a@usm.my | Dr. Hafizuddin Mohamed Fauzi (HMF) | hafizuddin@usm.my |
| Dr. Siti Salmah Noordin (SSN) | ssalmah@usm.my | Dr. Rafeezul Bin Mohamed (RAF) | rafeezul@usm.my |
| Dr. Sharifah Azdiana Tuan Din (SATD) | azdiana@usm.my | Dr. Emmanuel Jairaj Moses (EJM) | emmanuel_jm@usm.my |
| Dr. Asmida Binti Isa (ASI) | asmida.isa@usm.my | | |
| TTS507 RESEARCH | | | |
| Dr. Norfarazieda Hassan (NH) | Fara.hassan@usm.my | | |

Laboratory Practicals:

| Initials | Facilitator | E-mail |
|--------------------|-------------------------------|-------------------------|
| <i>MY</i> | Prof. Dr. Narazah Mohd Yusoff | narazah@usm.my |
| <i>SS</i> | Dr. Siti Salmah Noordin | ssalmah@usm.my |
| <i>SATD</i> | Dr. Sharifah Azdiana Tuan Din | azdiana@usm.my |
| <i>HMF</i> | Dr. Hafizuddin Mohd Fauzi | hafizuddin@usm.my |
| <i>RAR</i> | Pn. Rozana Abdul Rahim | rozana@usm.my |
| <i>SS</i> | Pn. Srly Saman | srly.saman@usm.my |
| <i>AA</i> | En. Azrul Abdullah | azrulbinabdullah@usm.my |
| <i>MN</i> | En. Mohd Najwan Mohd Nasir | najwan@usm.my |
| <i>PF</i> | Pn. Faizah Saad | faizah@usm.my |
| | | |

| Days / Dates | 9.00 - 10.00 | 10.00 - 11.00 | 11.00 - 12.00 | 12.00 - 1.00 | | 2.30 – 3.30 | 3.30 – 4.30 |
|---------------------------------|---|--|--|---------------------|----------|---|--------------------|
| Monday 17/10/2022 | SLT (Self Learning Time) | | | | L | SLT | |
| Tuesday 18/10/2022 | TTS 502 Blood Physiology (EJM) | TTS 502 Introduction To Transfusion (ASI) | TTS 502/TMR 501 Introduction to Journal Club (AHA, EJM)/ (NHA) | | U | TMR 504 Introduction to Library Research (Assoc. Prof. Dr. Rafidah Zainon) | |
| Wednesday 19/10/2022 | TMR 501 Introduction to Molecular Biology (Dr. Ch'ng Ewe Seng) | | TMR 504 eLibrary system and Endnote program (Assoc. Prof. Dr. Rafidah Zainon) | | N | LKM 111/Self Study | |
| Thursday 20/10/2022 | Occupational Safety and Health Course | | | | C | Occupational Safety and Health Course | |
| Friday 21/10/2022 | AMDI Laboratory Safety Programme | | | | H | | |

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|--------------------------------|--------------------------------|-----------------------------------|--|---|----------|---|------------------|--|
| Monday 24/10/2022 | DEEPAVALI | | | | | L | DEEPAVALI | |
| Tuesday 25/10/2022 | | TTS 502 QUIZ/REVISION (EJM) | TMR 501 Gene Transcription and Translation Dr. Ch'ng Ewe Seng) | | U | TMR 504 Introduction to Medical Statistics and Research Methodology (Dr. Noorsuzana Mohd. Shariff) | | |
| Wednesday 26/10/2022 | TTS 502 HLA System (RAF) | | TTS 502 QUIZ/REVISION (ASI) | TMR 504 Research Proposal and Grant Application (Assoc. Prof. Dr. Rafidah Zainon) | N | LKM 111/Self Study | | |
| Thursday 27/10/2022 | SLT | | | SLT | C | TMR 501 Regulation of Gene Expression and Epigenetics (Dr. Ch'ng Ewe Seng) | | |
| Friday 28/10/2022 | SLT | | | | | H | | |

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|--------------------------------|---|---------------|--|-----------------------------------|----------|--|-------------|
| Monday 31/10/2022 | SLT | | | | L | SLT | |
| Tuesday 01/11/2022 | SLT | SLT | TMR 501 Gene Cloning (Dr. Muhammad Amir Yunus) | | U | TMR 504 Statistical Requirement in Research Proposal (Dr. Noorsuzana Mohd. Shariff) | |
| Wednesday 02/11/2022 | SLT | | TTS 502 Basic Immunology (RAF) | | N | LKM 111/Self Study | |
| Thursday 03/11/2022 | TS 502 Blood Group Antigens and Antibodies ABO and Lewis (HMF) | | | TTS 502 Quiz/Revision (RAF) | C | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Friday 04/11/2022 | SLT | | | | H | | |

| Days / Dates | 9.00 - 10.00 | 10.00 - 11.00 | 11.00 - 12.00 | 12.00 - 1.00 | | 2.30 – 3.30 | 3.30 – 4.30 |
|--------------------------------|--|---------------|--|--------------|----------|--|-------------|
| Monday 07/11/2022 | TTS 502 Preparation, Storage and Transport of Blood Components Part 1 (HMF) | | | | L | TTS 502 Blood Group Antigens and Antibodies-Rh (SATD) | |
| Tuesday 08/11/2022 | TMR 504 Research Ethics I – Human Ethics (Dr. Mastura Mohd Sopian) | | TTS 502 Preparation, Storage and Transport of Blood Components Part 2 (HMF) | | U | TMR 504 Calculation of Sample size (Dr. Noorsuzana Mohd. Shariff) | |
| Wednesday 09/11/2022 | SLT | | TTS 502 Techniques in Immunohaematology (HMF) | | N | LKM 111/Self Study | |
| Thursday 10/11/2022 | TMR 504 Research Ethics II – Animal Ethics Dr. Rafeezul Mohamed | SLT | TMR 501 Basic Principles, Construction and Application of Genomic Libraries (Dr. Muhammad Amir Yunus) | | C | TTS 502 QUIZ -Revision (HMF) | |
| Friday 11/11/2022 | SLT | | | | H | | |

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|--------------------------------|--|--|--|--------------|----------|---|-------------|
| Monday 14/11/2022 | TTS 502 Transfusion Microbiology (SSN) | | | | L | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Tuesday 15/11/2022 | TMR504 Scientific and Academic Writing I (Assoc. Prof. Dr. Rafidah Zainon) | | SLT | SLT | U | TMR 501 Application of Genomics in Drug Discovery (Dr. Muhammad Amir Yunus) | |
| Wednesday 16/11/2022 | TTS 502 Quiz/Revision (RAF) | TTS 502 Introduction to Quality in Transfusion (SSN) | SLT | | N | LKM 111/Self Study | |
| Thursday 17/11/2022 | SLT | | TTS 502 Other Major Blood Groups (Student Seminar) (SATD) | | C | TMR504 Scientific and Academic Writing II (Assoc. Prof. Dr. Rafidah Zainon) | |
| Friday 18/11/2022 | SLT | | | | H | | |

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|--------------------------------|---|---------------|--|--|----------|---|-------------|
| Monday 21/11/2022 | SLT | | | | L | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Tuesday 22/11/2022 | TTS 502 Plasma Derivatives (SSN) | | TMR 501 Tumor Suppressor Genes and Oncogenes (Assoc. Prof. Datin Dr. Shahrul Bariyah Sahul Hamid) | | U | TMR 504 Multimedia Skill (Dr. Citartan Marimuthu) | |
| Wednesday 23/11/2022 | SLT | | TTS 502 Quiz/Revision (HMF) | TMR 504 Communication Skill (Dr. Citartan Marimuthu) | N | LKM 111/Self Study | |
| Thursday 24/11/2022 | TMR 501 Cell Cycle Regulation in Cancer Development (Assoc. Prof. Datin Dr. Shahrul Bariyah Sahul Hamid) | | TTS 502 Apheresis – Principles and Practice (SATD) | | C | SLT | |
| Friday 25/11/2022 | TTS 502 Lab practical | | | | H |) | |

| <i>Days / Dates</i> | <i>9.00 - 10.00</i> | <i>10.00 - 11.00</i> | <i>11.00 - 12.00</i> | <i>12.00 - 1.00</i> | | <i>2.30 – 3.30</i> | <i>3.30 – 4.30</i> |
|--------------------------------|--|--|----------------------|------------------------------------|----------|---|--------------------|
| Monday 28/11/2022 | SLT | | | | <i>L</i> | SLT | |
| Tuesday 29/11/2022 | TMR 504 Student Presentation: Communication Skill (Dr. Citartan Marimuthu) | | | | <i>U</i> | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Wednesday 30/11/2022 | SLT | TTS 502 ABO Discrepancies (Student Seminar) (HMF) | | TTS 502 Quiz/Revision (SATD) | <i>N</i> | LKM 111/Self Study | |
| Thursday 01/12/2022 | SLT | | | SLT | <i>C</i> | TMR 501 Mechanisms of Cell Death in Cancer Cells (Assoc. Prof. Datin Dr. Shahrul Bariyah Sahul Hamid) | |
| Friday 02/12/2022 | TTS 502 Lab practical | | | | <i>H</i> | | |

| Days / Dates | 9.00 - 10.00 | 10.00 - 11.00 | 11.00 - 12.00 | 12.00 - 1.00 | | 2.30 – 3.30 | 3.30 – 4.30 |
|---------------------------------|----------------------------------|----------------------|----------------------|---------------------|----------|---------------------------|--------------------|
| Monday 05/12/2022 | Cuti Pertengahan Semester | | | | L | | |
| Tuesday 06/12/2022 | | | | | U | | |
| Wednesday 07/12/2022 | | | | | N | LKM 111/Self Study | |
| Thursday 08/12/2022 | | | | | C | | |
| Friday 09/12/2022 | | | | | H | | |

| Days / Dates | 9.00 - 10.00 | 10.00 - 11.00 | 11.00 - 12.00 | 12.00 - 1.00 | | 2.30 – 3.30 | 3.30 – 4.30 |
|---------------------------------|---|----------------------|---|-----------------------------------|----------|---|--------------------|
| Monday 12/12/2022 | SLT | | | | L | SLT | |
| Tuesday 13/12/2022 | TMR 504 Seminar: Research Management Skill (Dr. Citartan Marimuthu) | | SLT | TTS 502 Haemostasis (EJM) | U | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Wednesday 14/12/2022 | SLT | | TMR 501 Genomics as Rapid Detection in Diagnosis and Prognosis of Diseases (Dr. Ng Siew Kit) | | N | LKM 111/Self Study | |
| Thursday 15/12/2022 | SLT | | | TTS 502 Quiz/Revision (SSN) | C | TMR 501 Genomic Biomarker Discovery (Dr. Ng Siew Kit) | |
| Friday 16/12/2022 | TTS 502 Lab practical | | | | H | | |

| Days / Dates | 9.00 - 10.00 | 10.00 - 11.00 | 11.00 - 12.00 | 12.00 - 1.00 | | 2.30 – 3.30 | 3.30 – 4.30 |
|--------------------------------|---|---------------|--|---------------------|----------|--|-------------|
| Monday 19/12/2022 | SLT | | | | L | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Tuesday 20/12/2022 | Quiz/Revision (SSN) | | SLT | Quiz/Revision (EJM) | U | TMR504 Scientific and Academic Writing III (Assoc. Prof. Dr. Rafidah Zainon) | |
| Wednesday 21/12/2022 | TMR504 Scientific and Academic Writing IV (Assoc. Prof. Dr. Rafidah Zainon) | SLT | TMR 501 Gene Array Technology and Cancer (Dr. Ng Siew Kit) | | N | LKM 111/Self Study | |
| Thursday 22/12/2022 | SLT | | SLT | SLT | C | TMR 501 Comparative Genomic Hybridization (Dr. Ng Siew Kit) | |
| Friday 23/12/2022 | TTS 502 Lab practical | | | | H | | |

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|--------------------------------|--|---------------|---------------|---|----------|--|----------------------|--|
| Monday 26/12/2022 | CHRISTMAS DAY | | | | | L | CHRISTMAS DAY | |
| Tuesday 27/12/2022 | SLT | SLT | | TMR 504 Creativity, Innovation and Commercialisation (Assoc. Prof. Dr. Rafidah Zainon) | U | TMR 501 RNA Technologies in Diagnosis and Prognosis of Diseases (Dr. Ng Siew Kit) | | |
| Wednesday 28/12/2022 | TMR 504 Discussion: Teamwork in Research (Dr. Mastura Mohd Sopian) | | | SLT | N | LKM 111/Self Study | | |
| Thursday 29/12/2022 | SLT | | SLT | SLT | C | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | | |
| Friday 30/12/2022 | TTS 502 Lab practical | | | | H | | | |

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| Monday 02/01/2023 | <i>NEW YEAR 2021</i> | | | | L | <i>NEW YEAR 2021</i> | |
| Tuesday 03/01/2023 | SLT | | SLT | TMR 504 Introduction to Bioinformatics and Medical Bioinformatics (Dr. Mohammad Syamsul Reza) | U | SLT | |
| Wednesday 04/01/2023 | TMR 504 Practical: Bioinformatics (Dr. Mohammad Syamsul Reza) | | | SLT | N | LKM 111/Self Study | |
| Thursday 05/01/2023 | SLT | TMR 501 Ethical and Social Implications of Genomic Medicine (Dr. Ng Siew Kit) | | | C | TMR 504 Bioinformatics Research Facility at USM and Malaysia (Dr. Mohammad Syamsul Reza) | SLT |
| Friday 06/01/2023 | TTS 502 Lab practical | | | | H | | |

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|--------------------------------|--------------------------|---------------|--|--------------|----------|---|-------------|
| Monday 09/01/2023 | SLT | | | | L | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Tuesday 10/01/2023 | SLT | | SLT | SLT | U | TMR 501 Latest Advances in Medical Genomics – Gene Therapy (Dr. Siti Razila Abdul Razak) | |
| Wednesday 11/01/2023 | SLT | | SLT | | N | LKM 111/Self Study | |
| Thursday 12/01/2023 | | | TMR 501 Latest Advances in Medical Genomics – Pharmacogenetics in Personalised Medicine (Dr. Siti Razila Abdul Razak) | | C | SLT | |
| Friday 13/01/2023 | TTS 502 Lab practical | | | | H | | |

| <i>Days / Dates</i> | <i>9.00 - 10.00</i> | <i>10.00 - 11.00</i> | <i>11.00 - 12.00</i> | <i>12.00 - 1.00</i> | | <i>2.30 – 3.30</i> | <i>3.30 – 4.30</i> |
|--------------------------------|--|----------------------|--|---------------------|----------|---|--------------------|
| Monday 16/01/2023 | | | | | L | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Tuesday 17/01/2023 | TMR 504 Statistical Analysis of Experimental Results (Dr. Noorsuzana Mohd. Shariff) | | TMR 501 Latest Advances in Medical Genomics – Cancer Vaccine (Dr. Siti Razila Abdul Razak) | | U | TTS 502/TMR 501 Journal Club (AHA, EJM)/ (NHA) | |
| Wednesday 18/01/2023 | SLT | | | | N | LKM 111/Self Study | |
| Thursday 19/01/2023 | SLT | | | | C | TMR501 Latest Advances in Medical Genomics – High Throughput Nextgen Sequencing (Dr. Siti Razila Abdul Razak) | |
| Friday 20/01/2023 | TTS 502 Lab practical | | | | H | | |

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| <i>Days / Dates</i> | <i>9.00 - 10.00</i> | <i>10.00 - 11.00</i> | <i>11.00 - 12.00</i> | <i>12.00 - 1.00</i> | | <i>2.30 – 3.30</i> | <i>3.30 – 4.30</i> | |
|--------------------------------|--|----------------------|--|---------------------|--|--------------------|--|--|
| Monday 23/01/2023 | <i>CHINESE NEW YEAR</i> | | | | | <i>L</i> | <i>CHINESE NEW YEAR</i> | |
| Tuesday 24/01/2023 | <i>CHINESE NEW YEAR</i> | | | | | <i>U</i> | <i>CHINESE NEW YEAR</i> | |
| Wednesday 25/01/2023 | | | TMR 504 Use of Mathematical Software in Statistical Analysis (Dr. Noorsuzana Mohd. Shariff) | | | <i>N</i> | LKM 111/Self Study | |
| Thursday 26/01/2023 | TMR 504 Practical: Statistics (Dr. Noorsuzana Mohd. Shariff) | | | | | <i>C</i> | TMR501 Seminar/Forum: Current Issues in Medical Genomics (Assoc. Prof. Datin Dr. Shahrul Bariyah Sahul Hamid) | |
| Friday 27/01/2023 | | | | | | <i>H</i> | | |

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|---------------------------------|------------------------|----------------------|----------------------|---------------------|--------------------|--------------------|
| Monday 30/01/2023 | <h1>REVISION WEEK</h1> | | | | | |
| Tuesday 31/01/2023 | | | | | | |
| Wednesday 01/03/2023 | | | | | | |
| Thursday 02/02/2023 | | | | | | |
| Friday 03/02/2023 | | | | | | |

Revision Week : 30 January 2023 – 03 February 2023

| <i>Days/Date</i> | <i>1st Week</i> | <i>Days/Date</i> | <i>2nd Week</i> | <i>Days/Date</i> | <i>3rd Week</i> |
|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| Monday 06/02/2023 | EXAMINATION | Monday 13/02/2023 | EXAMINATION | Monday 20/02/2023 | EXAMINATION |
| Tuesday 07/02/2023 | | Tuesday 14/02/2023 | | Tuesday 21/02/2023 | |
| Wednesday 08/02/2023 | | Wednesday 15/02/2023 | | Wednesday 22/02/2023 | |
| Thursday 09/02/2023 | | Thursday 16/02/2023 | | Thursday 23/02/2023 | |
| Friday 10/02/2023 | | Friday 17/02/2023 | | Friday 24/02/2023 | |

Examination Week :