

## JADUAL WAKTU KULIAH & PEPERIKSAAN (JWKP) ISB SESI 2019/2020

| PROGRAM TAHAP 1 SESI 2019/20 (SEMESTER 2) |                                                                                   |                                               |                               |      |          |                                                                                                                                         |                  |                                                   |                                                                |
|-------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------|----------------------------------------------------------------|
| Kod Kursus                                | Bil. Jam Kredit (Jenis Kursus)                                                    | Tajuk Kursus                                  | Masa                          | Hari | Tempat   | Pensyarah                                                                                                                               | Bilangan Pelajar | Catatan                                           | Tarikh & waktu peperiksaan                                     |
| SIJ1001                                   | 2 (T)<br>MP: (PB 40% + PA 60%)                                                    | Proses Kehidupan<br><i>Life Process</i>       | 9.00 – 9.50                   | IR   | DK4      | <u>Dr Nurul Shamsinah Mohd Suhaimi</u><br>Dr. Zuliana Razali<br>Dr Nurul Amalina Mohd Zain                                              | 120+20           | SIK, SIV, SIE<br>SIP & SMPIS (BIOLOGI)            | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
| SIL1001                                   | 2 (T)<br>MP: (PB 50% + PA 50%)                                                    | Biologi Sel<br><i>Cell Biology</i>            | 11.00–11.50                   | IR   | DK4      | Prof. Dr Zulqarnain Mohamed<br>Dr. Nur Ardiyana Rejab<br>Dr. Syarifah Aisyafaznim<br>Sayed Abdul Rahman                                 | 150              | SIJ, SIH, SIL,<br>SIR & SIP                       |                                                                |
| SIE1001                                   | 2 (T)<br>MP: (PB 40% + PA 60%)                                                    | Biologi Organisma<br><i>Organism Biology</i>  | 10.00 -10.50                  | IR   | DK4      | <u>Dr Yong Kien Thai</u><br>Dr Nurul Ashikin Abdullah<br>Dr Lau Beng Fye                                                                | 90+20            | SIK, SIV, SIE & SMPIS (BIOLOGI)                   |                                                                |
| SIH1001                                   | 2(T)<br>SIH1001<br>MP: (PB 50% + PA 50%)<br><br>SHES1203<br>MP: (PB 60% + PA 40%) | Biologi Populasi<br><i>Population Biology</i> | 9.00 – 9.50                   | SK   | Cempaka  | <u>Dr. Rosazlin Abdullah</u><br>Dr. Lau Beng Fye<br>Dr. Norhidayah Mohd Taufek                                                          | 90               | SIK, SIV, SIE & SIP                               |                                                                |
| SIK1001                                   | 2(P)<br>MP: (PB 100%)                                                             | Amali Biologi<br><i>Biology Practical</i>     | <u>Kump.A:</u><br>9.00-11.50  | SK   | Mak Bio1 | <u>Dr. Sujatha Ramasamy</u><br>Dr. Mohd Zuwairi Saiman<br>Dr Wan Abd Al Qadr Imad<br>Dr Nurul Amalina Mohd Zain<br>Dr Sarah Abdul Razak | 75               | SIJ, SIH, SIL,<br>SIR, SIP & SMPIS (ALAM SEKITAR) | Tiada peperiksaan                                              |
|                                           |                                                                                   |                                               | <u>Kump.B:</u><br>2.00 - 4.50 | SK   | Mak Bio1 | <u>Dr. Sujatha Ramasamy</u>                                                                                                             | 60               |                                                   |                                                                |

|         |                                  |                                      |                                          |        |       |                                                                                                                       |    |                                                       |                                                                                |
|---------|----------------------------------|--------------------------------------|------------------------------------------|--------|-------|-----------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------|--------------------------------------------------------------------------------|
|         |                                  |                                      |                                          |        |       | Dr Mohd Zuwairi Saiman<br>Dr Nurul Shamsinah<br>Dr Hasmahzaiti Omar<br>Dr Nur Airina Muhammad<br>Dr Rosazlin Abdullah |    |                                                       |                                                                                |
| SIX1003 | 3(T)<br>MP: (PB 50%<br>+ PA 50%) | Biostatistik<br><i>Biostatistics</i> | <u>Kump.A:</u><br>3.00-3.50<br>3.00-4.40 | I<br>R | Ixora | Dr. Muhammad Syakirin<br>Mispan (week 1-7)<br>Dr. Nikman Adli Nor Hashim<br>(week 8-14)                               | 65 | Kump A: SIK,<br>SIH & SIP<br><br>Kump B: SIJ &<br>SIL | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|         |                                  |                                      | <u>Kump.B:</u><br>3.00-3.50<br>3.00-4.40 | I<br>R | Melor | Dr. Lau Beng Fye<br>(week 1-7)<br><u>Dr. Nurul Ashikin Abdullah</u><br>(week 8-14)                                    | 65 |                                                       |                                                                                |

**KURSUS ELEKTIF LUAR FAKULTI SESI 2019/20 (SEMESTER 2)**

| Kod Kursus | Bil. Jam Kredit (Jenis Kursus) | Tajuk Kursus                                                    | Masa         | Hari | Tempat     | Pensyarah                                                  | Bilangan Pelajar | Catatan                                                                                                                    | Tarikh & waktu peperiksaan                                     |
|------------|--------------------------------|-----------------------------------------------------------------|--------------|------|------------|------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| GIS1010    | 2(T)<br>MP: (PB 40% + PA 60%)  | Sistem Saraf Manusia<br><i>Human Nervous System</i>             | 9.00 – 10.50 | R    | BS5&6, KDK | <u>Prof. Dr Nurul Kabir</u>                                | 35               | Tidak boleh diambil oleh pelajar Fakulti Sains dan Fakulti Perubatan                                                       | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
| GIS1012    | 2(T)<br>MP: (PB 40% + PA 60%)  | Nutrisi Sepanjang Hayat<br><i>Lifecycle Nutrition</i>           | 4.00 – 4.50  | SK   | DK4        | <u>PM Dr Ahmad Salihin Baba</u>                            | 200              | Tidak boleh diambil oleh pelajar Fakulti Sains                                                                             |                                                                |
| GIS1015    | 2(N)<br>MP: (PB 100%)          | Genetik dan Anda<br><i>Genetics and You</i>                     | 8.00-9.50    | S    | SE9        | <u>PM Dr Nazia Abdul Majid</u>                             | 25               | Tidak boleh diambil oleh pelajar Fakulti Sains, pelajar Fakulti Perubatan dan pelajar Sains Gunaan dengan Pengajian Islam. | Tiada peperiksaan                                              |
| GIS2001    | 2(T)<br>MP: (PB 40% + PA 60%)  | Biologi Tumbuhan<br><i>Plant Biology</i>                        | 2.00 – 3.50  | S    | SA1        | <u>Dr Sugumaran Manickam</u><br><u>Dr Sujatha Ramasamy</u> | 25               | Tidak boleh diambil oleh pelajar Fakulti Sains                                                                             | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
| GIS2002    | 2(T)<br>MP: (PB 50% + PA 50%)  | Prinsip-prinsip konservasi<br><i>Principles of Conservation</i> | 2.00 – 3.50  | I    | SA2        | <u>Dr Pozi Milow</u>                                       | 30               | Tidak boleh diambil oleh pelajar Fakulti Sains                                                                             |                                                                |

**KURSUS ELEKTIF LUAR JABATAN SESI 2019/20 (SEMESTER 2)**

| Kod Kursus           | Bil. Jam Kredit (Jenis Kursus)     | Tajuk Kursus                             | Masa        | Hari | Tempat      | Pensyarah                                                          | Bilangan Pelajar | Catatan                                                       | Tarikh & waktu peperiksaan                                                     |
|----------------------|------------------------------------|------------------------------------------|-------------|------|-------------|--------------------------------------------------------------------|------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------|
| SHES1601/<br>SIX1006 | 3(T+P)<br>MP: (PB 40%<br>+ PA 60%) | Flora Malaysia<br><i>Malaysian Flora</i> | 8.00-8.50   | IR   | Ixora       | <u>Dr Sugumaran Manickam</u><br>Dr Yong Kien Thai<br>Dr Pozi Milow | 10<br>30         | Tidak boleh diambil<br>oleh pelajar Institut<br>Sains Biologi | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|                      |                                    |                                          | 2.00-4.50   | I    | Mak<br>Bio1 |                                                                    |                  |                                                               |                                                                                |
| SHES1603/<br>SIX1008 | 2(N)<br>MP: (PB<br>100%)           | Biokomputeran<br><i>Biocomputing</i>     | 11.00-12.50 | R    | Mak<br>BIM2 | <u>Dr Teoh Teow Chong</u>                                          | 10<br>40         | Tidak boleh diambil<br>oleh pelajar Institut<br>Sains Biologi | Tiada<br>peperiksaan                                                           |

| PROGRAM BIOINFORMATIK SESI 2019/20 (SEMESTER 2) |                                  |                                         |              |      |        |                                           |                  |                       |                                                         |
|-------------------------------------------------|----------------------------------|-----------------------------------------|--------------|------|--------|-------------------------------------------|------------------|-----------------------|---------------------------------------------------------|
| Kod Kursus/<br>Kertas Bersama                   | Bil. Jam Kredit (Jenis Kursus)   | Tajuk Kursus                            | Masa         | Hari | Tempat | Pensyarah                                 | Bilangan Pelajar | Catatan               | Tarikh & waktu peperiksaan                              |
| SIV 2006                                        | 3(T)<br>MP: (PB 40% + PA 60%)    | Algoritma dalam Bioinformatics          | 12.00-12.50  | IR   | BIM1   | Dr. Chang Siow Wee                        | 30               | SIV 2004              | Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2 |
|                                                 |                                  | <i>Algorithms in Bioinformatics</i>     | 12.00-12.50  | K    | BIM1   |                                           |                  |                       |                                                         |
| SIV 2007                                        | 3(T+P)<br>MP: (PB 40% + PA 60%)  | Analisis dan Rekabentuk Sistem          | 10.00-10.50  | SK   | BIM1   | Dr. Nikman Adli Nor Hashim                | 30               | SIV 2004              |                                                         |
|                                                 |                                  | <i>System Analysis and Design</i>       | 2.00-5.00    | S    | BIM 1  |                                           |                  |                       |                                                         |
| SIV 2008                                        | 2 (T)<br>MP: (PB 30% + PA 70%)   | Biologi Molekul & Kejuruteraan Genetik  | 9.00-10.00   | IR   | SD6    | Dr. Farahaniza                            | 35               | SIV 2001              |                                                         |
| SIV 2009                                        | 2(T)<br>MP: (PB 40% + PA 60%)    | Analisis Sistematis Organisma           | 10.00-10.50  | IR   | SD6    | <u>Dr Teoh Teow Chong</u>                 | 30               | SIE 1001 dan SIH 1001 |                                                         |
| SIV 2010                                        | 2 (T)<br>MP: (PB 40% + PA 60%)   | Matematik Dalam Bioinformatik           | 11.00-11.50  | IR   | SD7    | <u>Dr. M. Vijayan a/l Manickam Achari</u> | 30               | SIX 1003              |                                                         |
| SIV 2013                                        | 3 (T+P)<br>MP: (PB 60% + PA 40%) | Pengaturcaraan berorientasikan Objek    | 8.00-8.50    | SK   | BIM2   | <u>Dr. Arpah Abu</u>                      | 35               |                       |                                                         |
|                                                 |                                  | <i>Object oriented Programming</i>      | 2.00-5.00    | R    | BIM2   |                                           |                  |                       |                                                         |
| SIV 2011                                        | 3 (T+P) MP: (PB 60% + PA 40%)    | Pengenalan kepada Sistem Pangkalan Data | 9.00-9.50    | SK   | BIM2   | <u>Dr. Arpah Abu</u>                      | 30               | SIV 2004              |                                                         |
|                                                 |                                  | <i>Introduction to Database System</i>  | 2.00-5.00    | K    | BIM2   |                                           |                  |                       |                                                         |
| SIV 3001                                        | 4(N)<br>MP: (PB 100%)            | Projek Bioinformatik                    | Tiada Kuliah |      |        | Penyelaras program Bioinformatik          | Tiada had        | SIV 2007 dan SIV 2008 | Tiada peperiksaan                                       |

|          |                                    |                                                                                          |              |    |       |                                                         |    |                       |                                                                                |
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| SIV 3005 | 2(T)<br>MP: (PB 40%<br>+ PA 60%)   | Pemodelan Biomolekul<br><i>Biomolecular Modeling</i>                                     | 12.00-12.50  | SK | SD6   | <u>Dr Teoh Teow Chong</u>                               | 30 | SIV 2007 dan SIV 2008 | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
| SIV 3006 | 2(T)<br>MP: (PB 40%<br>+ PA 60%)   | Genomik<br><i>Genomic</i>                                                                | 10.00-10.50  | IR | SD7   | Prof. Dr. Amir Feisal Merican                           | 30 |                       |                                                                                |
| SIV 3007 | 2(T+P)<br>MP: (PB 40%<br>+ PA 60%) | Intrumentasi dalam Sains<br>Biologi<br><i>Instrumentation in Biological<br/>Sciences</i> | 12.00–12.50  | I  | SD7   | Dr Saharuddin Mohamad                                   | 30 | SIV2001               |                                                                                |
|          |                                    |                                                                                          | 2.00-5.00    | I  | SD7   |                                                         |    |                       |                                                                                |
| SIV 3009 | 3(T+P)<br>MP: (PB 40%<br>+ PA 60%) | Pengaturcaraan Internet<br><i>Internet Programming</i>                                   | 10.00-10.50  | SK | BIM 2 | Dr. Arpah Abu                                           | 30 | SIV 2004              |                                                                                |
|          |                                    | Amali                                                                                    | 2.00-5.00    | S  | BIM 2 |                                                         |    |                       |                                                                                |
| SIV 3011 | 3(N)<br>(PB 100%)                  | Topik Semasa Bioinformatik<br><i>Current Topics in<br/>Bioinformatics</i>                | 9.00-12.00   | J  | SD7   | <u>Dr Farahaniza Supandi</u><br>Semua Pensyarah program | 30 | SIV 2007 dan SIV 2008 | Tiada<br>peperiksaan                                                           |
| SIV 3015 | 3(T+A)<br>MP: (PB 60%<br>+ PA 40%) | Informatik Kesihatan<br><i>Health Informatics</i>                                        | 11.00– 11.50 | IR | BIM 1 | Dr. Chang Siow Wee                                      | 30 |                       | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|          |                                    | Amali                                                                                    | 2.00-5.00    | R  | BIM 1 |                                                         |    |                       |                                                                                |
| SIV 3016 | 3(T+P)<br>MP: (PB 70%<br>+ PA 30%) | Informatik Sumber Genetik<br><i>Genetics Informatics</i>                                 | 11.00-11.50  | SK | SD6   | <u>Dr Saharuddin Mohamad</u><br>Dr Farahaniza Supandi   | 30 | SIV 2008              |                                                                                |
|          |                                    | Amali                                                                                    | 2.00-5.00    | K  | SD7   |                                                         |    |                       |                                                                                |

| PROGRAM BIOKIMIA SESI 2019/20 (SEMESTER 2) |                                |                                                                                                                     |             |      |        |                                                                                                                                                                                                           |                  |         |                                                         |
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| Kod Kursus/<br>Kertas Bersama              | Bil. Jam Kredit (Jenis Kursus) | Tajuk Kursus                                                                                                        | Masa        | Hari | Tempat | Pensyarah                                                                                                                                                                                                 | Bilangan Pelajar | Catatan | Tarikh & waktu peperiksaan                              |
| SIJ1002                                    | 3 (T)<br>MP: (PB 40% + PA 60%) | Kimia Asas<br><i>Fundamentals of Chemistry</i>                                                                      | 2.00-3.50   | S    | SBK    | <u>Prof Dr Saad Tayyab</u>                                                                                                                                                                                | 60               |         | Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2 |
|                                            |                                |                                                                                                                     | 2.00-2.50   | K    |        |                                                                                                                                                                                                           |                  |         |                                                         |
| SIJ2004                                    | 2 (T)<br>MP: (PB 40% + PA 60%) | Metabolisma & Pengawalan Asid amino & nukleotida<br><i>Metabolism and Regulation of Amino Acids and Nucleotides</i> | 2.00-3.50   | R    | SBK    | <u>PM Dr Sim Kae Shin</u>                                                                                                                                                                                 | 30               |         |                                                         |
| SIJ2005                                    | 3 (T)<br>MP: (PB 40% + PA 60%) | Biologi Molekular<br><i>Molecular Biology</i>                                                                       | 12.00-1.15  | SK   | SBK    | <u>Dr Gokula Mohan</u><br>PM Dr Adawiyah Suriza                                                                                                                                                           | 30               |         |                                                         |
| SIJ2007                                    | 2 (T)<br>MP: (PB 40% + PA 60%) | Enzim: Mekanisme dan Kawalan<br><i>Enzymes: Mechanism and Control</i>                                               | 12.00-12.50 | IR   | SBK    | <u>Prof Dr Saad Tayyab</u>                                                                                                                                                                                | 30               |         |                                                         |
| SIJ2009                                    | 4 (P)<br>MP: (PB 100%)         | Amali Biokimia II<br><i>Biochemistry Practical II</i>                                                               | 2:00-4.50   | ISK  | BK1    | <u>Dr Gokula Mohan</u><br>Prof. Dr Saiful Anuar Karsani<br>PM Dr Adawiyah Suriza<br>PM Dr Ahmad Salihin Baba<br>PM Dr Norhaniza Aminudin<br>PM Dr Zazali Alias<br>PM Dr Sim Kae Shin<br>Dr Zuliana Razali | 30               |         | Tiada peperiksaan                                       |
| SIJ2011                                    | 3 (T)<br>MP: (PB 40% + PA 60%) | Biokimia Alam Sekitar<br><i>Environmental Biochemistry</i>                                                          | 11.00-11.50 | S    | SBK    | <u>PM Dr Zazali Alias</u>                                                                                                                                                                                 | 30               |         | Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2 |
|                                            |                                |                                                                                                                     | 10.00-11.50 | K    |        |                                                                                                                                                                                                           |                  |         |                                                         |

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| SIJ2013 | 3 (N)<br>MP: (PB 100%)         | Topik Khas Biokimia<br><i>Special Topics in Biochemistry</i>                      | 9.00-10.50   | S | SBK | Dr Zuliana Razali<br>Prof. Dr Saiful Anuar Karsani                                                                                                                                                                               | 30        |  | Tiada peperiksaan                                              |
|         |                                |                                                                                   | 9.00-9.50    | K |     |                                                                                                                                                                                                                                  |           |  |                                                                |
| SIJ3001 | 10 (N)<br>MP: (PB 100%)        | Projek Penyelidikan Biokimia<br><i>Research Project in Biochemistry</i>           | Tiada Kuliah |   |     | PM Dr Ahmad Salihin Baba<br>Prof Dr Saad Tayyab<br>Prof. Dr Saiful Anuar Karsani<br>PM Dr Zazali Alias<br>PM Dr Adawiyah Suriza Shuib<br>PM Dr Norhaniza Aminudin<br>PM Dr Sim Kae Shin<br>Dr Gokula Mohan<br>Dr Zuliana Razalii | Tiada had |  | Tiada peperiksaan                                              |
| SIJ3004 | 3 (T)<br>MP: (PB 40% + PA 60%) | Biokimia Klinikal dan Fisiologi/<br><i>Clinical Biochemistry and Physiology/</i>  | 10.00-10.50  | I | SBK | PM Dr Norhaniza Aminudin                                                                                                                                                                                                         | 30        |  | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|         |                                |                                                                                   | 10.00-11.50  | R |     |                                                                                                                                                                                                                                  |           |  |                                                                |
| SIJ3012 | 3 (T)<br>MP: (PB 40% + PA 60%) | Biokimia dan Bioteknologi Gunaan<br><i>Applied Biochemistry and Biotechnology</i> | 9.00-9.50    | I | SBK | Dr Zuliana Razali<br>PM Dr Ahmad Salihin Baba                                                                                                                                                                                    | 30        |  |                                                                |
|         |                                |                                                                                   | 8.00-9.50    | R | SBK |                                                                                                                                                                                                                                  |           |  |                                                                |
| SIJ3014 | 3 (T)<br>MP: (PB 40% + PA 60%) | Molekular Struktural Biologi<br><i>Structural Molecular Biology</i>               | 12.00-1.15   | S | SA3 | PM Dr Zazali Alias                                                                                                                                                                                                               | 30        |  |                                                                |
|         |                                |                                                                                   | 12.00-1.15   | K |     |                                                                                                                                                                                                                                  |           |  |                                                                |

**PROGRAM EKOLOGI BIODIVERSITI SESI 2019/20 (SEMESTER 2)**

| PROGRAM EKOLOGI BIODIVERSITI SESI 2019/20 (SEMESTER 2) |                                 |                                                                                             |                            |        |                 |                                                                           |                  |         |                                                                |
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| Kod Kursus/<br>Kertas Bersama                          | Bil. Jam Kredit (Jenis Kursus)  | Tajuk Kursus                                                                                | Masa                       | Hari   | Tempat          | Pensyarah                                                                 | Bilangan Pelajar | Catatan | Tarikh & waktu peperiksaan                                     |
| SIE2001                                                | 4(T+P)<br>MP: (PB 60% + PA 40%) | Prinsip Sistematik<br><i>(Principles of Systematics)</i>                                    | 9.00-10.50<br>9.00-9.50    | S<br>K | SA2             | Dr Hasmahzaiti Omar<br>Dr Sarah Abdul Razak<br>Dr Muhamad Shakirin Mispan | 31               |         | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|                                                        |                                 | Amali                                                                                       | 2.00-4.50                  | S      | Mak Projek PEB1 |                                                                           |                  |         |                                                                |
| SIE2004                                                | 3(T+P)<br>MP: (PB 60% + PA 40%) | Mikologi<br><i>(Mycology)</i>                                                               | 12.00-12.50                | IR     | SA3             | PM Dr Md Yusoff Musa                                                      | 31               |         |                                                                |
|                                                        |                                 | Amali (Minggu 1-7)                                                                          | 9.00-11.50                 | J      | PEB1            |                                                                           |                  |         |                                                                |
| SIE2006                                                | 3(T+P)<br>MP: (PB 60% + PA 40%) | Fikologi<br><i>(Phycology)</i>                                                              | 12.00-12.50                | SK     | SA2             | Dr Pozi Milow                                                             | 31               |         |                                                                |
|                                                        |                                 | Amali (Minggu 8-14)                                                                         | 9.00-11.50                 | J      | PEB1            |                                                                           |                  |         |                                                                |
| SIE2007                                                | 4(T+P)<br>MP: (PB 60% + PA 40%) | Ekologi Populasi & Komuniti<br><i>(Population &amp; Community Ecology)</i>                  | 11.00-11.50<br>10.00-11.50 | S<br>K | SA2             | PM Dr Md Yusoff Musa<br>PM Dr Rosli Ramli                                 | 31               |         |                                                                |
|                                                        |                                 | Amali                                                                                       | 2.00-4.50                  | K      | PEB2            |                                                                           |                  |         |                                                                |
| SIE2009                                                | 3(T+P)<br>MP: (PB 50% + PA 50%) | Struktur, Fungsi & Fisiologi Haiwan<br><i>(Animal Structure, Function &amp; Physiology)</i> | 10.00-10.50                | IR     | SB4             | Dr Noorhidayah Mamat                                                      | 31               |         |                                                                |
|                                                        |                                 | Amali                                                                                       | 2.00-4.50                  | R      | PEB2            |                                                                           |                  |         |                                                                |
| SIE2012                                                | 3(T+P)<br>MP: (PB 40% + PA 60%) | Ekologi Akuatik<br><i>(Aquatic Ecology)</i>                                                 | 9.00-9.50                  | IR     | SA3             | Dr Amy Then<br>Dr Sarah Abdul Razak                                       | 31               |         |                                                                |
|                                                        |                                 | Amali                                                                                       | 2.00-4.50                  | I      | PEB2            |                                                                           |                  |         |                                                                |
| SIE2013                                                | 3(T+P)<br>MP: (PB 60% + PA 40%) | Ekologi Molekul<br><i>(Molecular Ecology)</i>                                               | 11.00-11.50                | IR     | SB4             | Dr Hasmahzaiti Omar                                                       | 31               |         |                                                                |
|                                                        |                                 | Amali                                                                                       | 3.00-5.50                  | J      | Mak Komp        |                                                                           |                  |         |                                                                |
| SIE3005                                                | 3(T+P)<br>MP: PB 50% + PA 50%   | Ekologi Kelakuan & Etologi<br><i>(Behavioral Ecology &amp; Ethology)</i>                    | 9.00-9.50                  | SK     | SB4             | Dr Noorhidayah Mamat                                                      | 20               |         |                                                                |
|                                                        |                                 | Amali                                                                                       | 10.00 – 12.50              | S      | PEB2            |                                                                           |                  |         |                                                                |

|                      |                                  |                                                                                                       |              |    |      |                                   |           |  |                                                                |
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| SIE3007              | 3(T+P)<br>MP: PB 60%<br>+ PA 40% | Ekologi dan Pengurusan Rumpai<br><i>(Ecology and Management of Weeds)</i>                             | 9.00-9.50    | IR | SA2  | <u>Dr Muhamad Shakirin Mispan</u> | 20        |  | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|                      |                                  | Amali                                                                                                 | 2.00-4.50    | S  | PEB1 |                                   |           |  |                                                                |
| SIE3009              | 3(T+P)<br>MP: PB 50%<br>+ PA 50% | Patologi Tumbuhan<br><i>(Plant Pathology)</i>                                                         | 10.00-10.50  | IR | SA2  | <u>PM Dr Md Yusoff Musa</u>       | 20        |  |                                                                |
|                      |                                  | Amali                                                                                                 | 2.00 – 4.50  | I  | PEB1 |                                   |           |  |                                                                |
| SIE3010              | 3(T+P)<br>MP: PB 50%<br>+ PA 50% | Hortikultur dan Landskap<br><i>(Horticulture and Landscaping)</i>                                     | 11.00-11.50  | IR | SA2  | <u>Dr Sarah Abdul Razak</u>       | 20        |  |                                                                |
|                      |                                  | Amali                                                                                                 | 2.00 – 4.50  | R  | PEB1 |                                   |           |  |                                                                |
| SIE3011              | 3(T+P)<br>MP: PB 60%<br>+ PA 40% | Perikanan dan Akuakultur<br><i>(Fisheries and Aquaculture)</i>                                        | 11.00-11.50  | IR | SA3  | <u>Dr Amy Then</u>                | 20        |  |                                                                |
|                      |                                  | Amali                                                                                                 | 2.00 – 4.50  | R  | B3.6 |                                   |           |  |                                                                |
| SIE3013              | 3(T+P)<br>MP: PB 60%<br>+ PA 40% | Entomologi Ekonomi<br><i>(Economic Entomologi)</i>                                                    | 9.00-9.50    | IR | SB4  | <u>Dr Nurul Ashikin Abdullah</u>  | 20        |  |                                                                |
|                      |                                  | Amali                                                                                                 | 2.00 – 4.50  | I  | B3.6 |                                   |           |  |                                                                |
| SIE3015              | 3(T+P)<br>MP: PB 60%<br>+ PA 40% | Ekotoksikologi<br><i>(Ecotoxicology)</i>                                                              | 12.00-12.50  | IR | SB4  | <u>Dr Nurul Amalina Mohd Zain</u> | 20        |  |                                                                |
|                      |                                  | Amali                                                                                                 | 2.00 – 4.50  | S  | PEB2 |                                   |           |  |                                                                |
| SIE3001/<br>SHEE3188 | 10 (N)<br>MP: (PB 100%)          | Projek Penyelidikan Ekologi dan Biodiversiti<br><i>(Research Project in ecology and Biodiversity)</i> | Tiada Kuliah |    |      | <u>Dr Nurul Amalina Mohd Zain</u> | Tiada had |  | Tiada peperiksaan                                              |

| PROGRAM SAINS PENGURUSAN ALAM SEKITAR SESI 2019/2020 (SEMESTER 2) |                                   |                                                                                                                |               |      |        |                                                           |                  |                                                                                       |                                                                |
|-------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------|---------------|------|--------|-----------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Kod Kursus/<br>Kertas Bersama                                     | Bil. Jam Kredit<br>(Jenis Kursus) | Tajuk Kursus                                                                                                   | Masa          | Hari | Tempat | Pensyarah                                                 | Bilangan Pelajar | Catatan                                                                               | Tarikh & waktu peperiksaan                                     |
| SIH1003                                                           | 2 (T)                             | Tumbuhan dan Alam Sekitar<br><i>(Plant and Environment)</i>                                                    | 10.00- 10.50  | IR   | SA1    | <u>Prof. Dr. Normaniza Osman</u>                          | 35               | Hanya untuk pelajar SPAS_SAINS & Sains Pendidikan                                     | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
| SHEH2102/<br>SIH2002                                              | 3(T) / 2(T)<br>MP:<br>(PB100%)    | Kaedah Penulisan Saintifik<br><i>(Scientific Writing Method)</i>                                               | 2.00 - 4.50   | K    | SA1    | <u>Dr. Lau Beng Fye</u>                                   | 10+ 30           | Hanya untuk pelajar SPAS_SAINS dan SPAS_SGPI                                          | Tiada peperiksaan                                              |
| SHEH2103/<br>SIH2003                                              | 3(T+P)                            | Sains Tanih<br><i>(Soil Science)</i>                                                                           | 10.00–10.50   | SK   | SB4    | <u>Dr. Rosazlin Abdullah</u><br>Prof. Dr. Normaniza Osman | 30               | Hanya untuk pelajar SPAS_SAINS                                                        | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|                                                                   |                                   | Amali                                                                                                          | 2.00 – 4.50   | S    | SPAS2  |                                                           |                  |                                                                                       |                                                                |
| SIH2005                                                           | 2(T)                              | Instrumentasi untuk Analisis Kimia Alam Sekitar<br><i>(Instrumentation of Environmental Chemical Analysis)</i> | 10.00–11.50   | R    | SE9    | <u>Dr. Zul Ilham Zulkiflee Lubes</u>                      | 30               | Hanya untuk pelajar SPAS_SAINS                                                        |                                                                |
| SHEH2305/<br>SIH2008                                              | 2(T)                              | Keselamatan dan Kesihatan Alam Sekitar<br><i>(Environmental Health and Safety)</i>                             | 11.00-12.50   | K    | SB4    | <u>PM Dr. Ghufuran Redzwan</u>                            | 15 + 30          | Hanya untuk Pelajar SPAS_SAINS. Elektif untuk SMPIS/SGPI<br>Elektif untuk pelajar S&T |                                                                |
| SIH2013                                                           | 3(T+P)                            | Proses Tenaga Boleh Baharu<br><i>(Renewable Energy Processes)</i>                                              | 11.00 –12.50  | S    | SB4    | <u>Dr. Zul Ilham Zulkiflee Lubes</u>                      | 40               | Hanya untuk pelajar SPAS_SAINS<br>Elektif untuk pelajar S&T                           |                                                                |
|                                                                   |                                   | Amali                                                                                                          | 9.00-11.50    | J    | SPAS1  |                                                           |                  |                                                                                       |                                                                |
| SHEH2301/<br>SIH2010                                              | 3(T+P)                            | Limnologi<br><i>(Limnology)</i>                                                                                | 10.00 - 10.50 | IR   | S5&S6  | <u>Dr. Lau Beng Fye</u><br>Dr Pozi Milow                  | 15 + 30          | Hanya untuk pelajar SPAS_SAINS dan SPAS_SGPI                                          |                                                                |
|                                                                   |                                   | Amali                                                                                                          | 2.00 – 4.50   | R    | SPAS1  |                                                           |                  |                                                                                       |                                                                |

|                                   |                            |                                                                                                                  |               |    |            |                                     |           |                                                                                          |                                                                                |
|-----------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------|---------------|----|------------|-------------------------------------|-----------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| SHEH2304/<br>SIH2009              | 2(T)                       | Pengenalan kepada Sistem<br>Maklumat Geografi<br><i>(Introduction to Geographic<br/>Information System)</i>      | 9.00 - 9.50   | SK | SA1        | <u>PM Dr. Ghufuran Redzwan</u>      | 30        | Hanya untuk<br>Pelajar<br>SPAS_SAINS                                                     |                                                                                |
| SHEH3102/<br>SIH3004              | 3(T)                       | Etika, Polisi dan Undang-<br>Undang Alam Sekitar<br><i>(Environmental Ethics, Policy<br/>and Law)</i>            | 12.00 - 1.15  | SK | SA1        | <u>Dr. Fauziah Shahul Hamid</u>     | 15 + 30   | Hanya untuk<br>pelajar<br>SPAS_SAINS dan<br>Sc Education,<br>Elektif untuk<br>SMPIS/SGPI | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
| SHEH3104/<br>SIH3006              | 3(T+A)                     | Sistem Pengurusan Alam<br>Sekitar<br><i>(Environmental Management<br/>System)</i>                                | 10.00-10.50   | IR | DK1        | <u>PM Dr. Ghufuran Redzwan</u>      | 15 + 30   | Hanya untuk<br>pelajar<br>SPAS_SAINS dan<br>SPAS_SGPI.                                   |                                                                                |
|                                   |                            | Amali                                                                                                            | 2.00-4.50     | R  | SPAS2      |                                     |           |                                                                                          |                                                                                |
| SHEH3107/<br>SIH3008              | 3(T)<br>/2(T)              | Pembangunan Mapan<br><i>(Sustainable Development)</i><br>Pembangunan Lestari<br><i>(Sustainable Development)</i> | 12.00-1.15    | IR | Melati     | <u>Dr. Adi Ainurzaman Jamaludin</u> | 20 + 30   | Hanya untuk<br>pelajar<br>SPAS_SAINS dan<br>SPAS_SGPI.<br>Elektif untuk<br>pelajar S&T   |                                                                                |
| SIH3014                           | 2(T)                       | Ekologi Industri<br><i>(Industrial Ecology)</i>                                                                  | 11:00-11:50   | IR | SA1<br>SA1 | <u>PM Dr. Noor Zalina Mahmood</u>   | 30        | Hanya untuk<br>Pelajar<br>SPAS_SAINS                                                     |                                                                                |
| SIH3019                           | 3(T+P)                     | Pelancongan dan Alam<br>Sekitar<br><i>(Tourism and Environment)</i>                                              | 11.00 - 11.50 | SK | SA3        | <u>PM Dr. Rozainah Mohd Zakaria</u> | 15        | Hanya untuk<br>pelajar<br>SPAS_SAINS<br>Elektif untuk<br>pelajar S&T                     | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|                                   |                            | Amali                                                                                                            | 2.00 – 4.50   | K  | SPAS2      |                                     |           |                                                                                          |                                                                                |
| SHEH3189/<br>SHEH4180/<br>SIH3001 | 10 (N)<br>MP: (PB<br>100%) | Projek Sains dan Pengurusan<br>Alam Sekitar<br><i>(Environmental Science and<br/>Management Project)</i>         | Tiada Kuliah  |    |            | <u>Dr. Adi Ainurzaman Jamaludin</u> | Tiada Had | Semester 5 dan<br>Lengkap 50 kredit                                                      | Tiada<br>peperiksaan                                                           |
| SHEH3306/<br>SIH3017              | 3(T+P)                     | Teknologi dan Pengurusan<br>Sisa Berbahaya<br><i>(Technology and<br/>Management of Hazardous<br/>Waste )</i>     | 10.00 - 10.50 | SK | SA1        | <u>Dr. Fauziah Shahul Hamid</u>     | 15+ 30    | Hanya untuk<br>pelajar<br>SPAS_SAINS                                                     | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |

|                                   |                           |                                                                                                                                     |              |    |       |                                 |           |                                                                                                       |                                                                                |
|-----------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|----|-------|---------------------------------|-----------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                   |                           | Amali                                                                                                                               | 2.00 – 4.50  | S  | SPAS1 |                                 |           |                                                                                                       |                                                                                |
| SIH3018                           | 3(T+P)                    | Mikrobiologi Alam Sekitar<br>( <i>Environmental Microbiology</i> )                                                                  | 9.00 - 9.50  | SK | SA3   | <u>Dr. Fauziah Shahul Hamid</u> | 15+ 30    |                                                                                                       | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|                                   |                           | Amali                                                                                                                               | 2.00-4.50    | S  | SPAS2 |                                 |           |                                                                                                       |                                                                                |
| SHEH3399/<br>SHEH4190/<br>SIH3002 | 5 (N)<br>MP: (PB<br>100%) | Latihan Industri Sains<br>Pengurusan Alam Sekitar<br>( <i>Industrial Training in Science<br/>and Environmental<br/>Management</i> ) | Tiada Kuliah |    |       | <u>Dr. Rosazlin Abdullah</u>    | Tiada had | Tidak boleh<br>diambil bersama<br>kursus lain yang<br>ada kuliah. Telah<br>melengkapkan 4<br>semester | Tiada<br>peperiksaan                                                           |

| PROGRAM BIOKESIHATAN SESI 2019/2020 (SEMESTER 2) |                                                     |                                                                                                                                                                                 |                |               |                   |                                                                                                                                                                              |                                |                    |                                                                |
|--------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|----------------------------------------------------------------|
| Kod Kursus<br>(Course Code)                      | Bil. Jam Kredit<br>(Jenis Kursus)<br>(Credit Hours) | Tajuk Kursus<br>(Course Title)                                                                                                                                                  | Masa<br>(Time) | Hari<br>(Day) | Tempat<br>(Venue) | Pensyarah<br>(Lecturer)                                                                                                                                                      | Bilangan Pelajar<br>(Capacity) | Catatan<br>(Notes) | Tarikh & Waktu Peperiksaan<br>(Exam Date & Time)               |
| SIK2001                                          | 3(T+P)<br>MP: PB<br>40% +PA<br>60%                  | Anatomi Manusia<br><i>Human Anatomy</i>                                                                                                                                         | 8.00–8.50      | SK            | SA1               | Dr Yusrizam Sharifuddin<br>PM Dr Siti Nursheena Md. Zain                                                                                                                     |                                |                    | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|                                                  |                                                     | Amali                                                                                                                                                                           | 2.00–4.50      | K             | SBK123            |                                                                                                                                                                              |                                |                    |                                                                |
| SIK2002                                          | 2(P)<br>MP: (PB<br>100%)                            | Kemahiran Penyelidikan Asas Sains Biokesihatan<br><i>Fundamental Research Skills in Biohealth Science</i><br>Amali Sains Biokesihatan I<br><i>Biohealth Science Practical I</i> | 10.00-12.50    | SK            | SBK123            | PM Dr Siti Nursheena Md. Zain<br>PM Dr Duriyyah,Sharifah Hasan Adli<br>PM Dr Nurhayati Zainal Abidin<br>Dr Yusrizam Sharifuddin,<br>Dr Sujatha Ramasamy,<br>Dr Shamsul Azlin | 30                             |                    | Tiada peperiksaan                                              |
| SIK2003                                          | 3(T)<br>MP: (PB<br>40% +PA<br>60%)                  | Biokimia Am<br><i>General Biochemistry</i><br>Biokimia Asas<br><i>Basic Biochemistry</i>                                                                                        | 8.00–8.50      | IRJ           | Melati            | <u>Dr Gokula Mohan</u>                                                                                                                                                       | 30                             |                    | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
| SIK2004                                          | 3(T)<br>MP: (PB<br>40% +PA<br>60%)                  | Fisiologi Manusia dan Haiwan<br><i>Human and Animal Physiology</i>                                                                                                              | 9.00–10.50     | I             | Melor             | <u>Dr Shamsul Azlin</u>                                                                                                                                                      | 30                             |                    |                                                                |
|                                                  |                                                     |                                                                                                                                                                                 | 10.00–10.50    | R             |                   |                                                                                                                                                                              |                                |                    |                                                                |
| SIK2007                                          | 3(T+P)<br>MP: (PB<br>50% +PA<br>50%)                | Histologi<br><i>Histology</i>                                                                                                                                                   | 9.00–9.50      | SK            | Ixora             | <u>Dr Tiong Yin Xin Sheena</u><br>Dr Nurul Kabir                                                                                                                             | 20                             |                    |                                                                |
|                                                  |                                                     | Amali                                                                                                                                                                           | 2.00–4.50      | S             | SBK123            |                                                                                                                                                                              |                                |                    |                                                                |
| SIK2009                                          | 3(T+P)<br>MP: (PB<br>40% +PA<br>60%)                | Mikrobiologi untuk Sains Kesihatan<br><i>Microbiology for Health Science</i>                                                                                                    | 2.00–3.50      | I             | Melati            | <u>Prof Dr Salmah Ismail</u>                                                                                                                                                 | 30                             |                    |                                                                |
|                                                  |                                                     | Amali                                                                                                                                                                           | 2.00–4.50      | R             | SBK123            |                                                                                                                                                                              |                                |                    |                                                                |
| SIK2012                                          | 2(T)<br>MP: (PB<br>40% +PA<br>60%)                  | Entomologi Perubatan<br><i>Medical Entomology</i>                                                                                                                               | 5.00–5.50      | IR            | SA1               | <u>Dr Norhidayu Sahimin</u>                                                                                                                                                  | 35                             |                    |                                                                |

|                      |                                       |                                                                                                                                                                |             |       |                      |                                                                   |            |  |                                                                                |
|----------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|----------------------|-------------------------------------------------------------------|------------|--|--------------------------------------------------------------------------------|
| SIK2014              | 3(T)<br>MP: (PB<br>40% + PA<br>60%)   | Fisiologi Pembiakan<br><i>Physiology of Reproduction</i>                                                                                                       | 9.00–9.50   | R     | Melor                | PM Dr. Noor Hashida<br>Hashim                                     | 35         |  | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|                      |                                       |                                                                                                                                                                | 9.00–10.50  | J     | SA1                  |                                                                   |            |  |                                                                                |
| SIK2015              | 3(T)<br>MP: (PB<br>40% +PA<br>60%)    | Perubatan Alternatif dan<br>Komplementari<br><i>Complementary and Alternative<br/>Medicine</i><br>Perubatan Alternatif<br><i>Alternative Medicine</i>          | 12.00–1.15  | I     | SE9                  | Dr Sujatha a/p Ramasamy                                           | 40         |  |                                                                                |
|                      |                                       |                                                                                                                                                                | 12.00-1.15  | R     |                      |                                                                   |            |  |                                                                                |
| SIK3001/<br>SHEK4180 | 10(N)<br>MP: (PB<br>100%)             | Projek Penyelidikan Sains<br>Biokesihatan<br><i>Research Project in Biohealth<br/>Science</i><br>Projek Sains Biokesihatan<br><i>Biohealth Science Project</i> | 10.00–4.50  | J, Sb | PROJEK<br>SBK        | PM Dr Nurhayati Zainal Abidin                                     | Tiada Had  |  | Tiada<br>peperiksaan                                                           |
| SIK3005/<br>SHEK3103 | 3(T)<br>MP: (PB<br>40% +PA<br>60%)    | Farmakologi<br><i>Pharmacology</i>                                                                                                                             | 5.00–6.15   | S     | SA1                  | Dr Nur Airina Muhamad                                             | 30<br>0+10 |  | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu 8<br/>Semester 2</i> |
|                      |                                       |                                                                                                                                                                | 5.00–6.15   | K     | SE9                  |                                                                   |            |  |                                                                                |
| SIK3006/<br>SHEK3201 | 3(T+P)<br>MP: (PB<br>40% + PA<br>60%) | Neurobiologi<br><i>Neurobiology</i>                                                                                                                            | 12.00–12.50 | IR    | SA1                  | PM Dr Durriyyah Sharifah<br>Hasan Adli<br>Dr Tiong Yin Xin Sheena | 30<br>0+15 |  |                                                                                |
|                      |                                       | Amali                                                                                                                                                          | 9.00–11.50  | J     | SBK123               |                                                                   |            |  |                                                                                |
| SIK3011/<br>SHEK3301 | 3(T)<br>MP: (PB<br>40% +PA<br>60%)    | Biologi Kanser<br><i>Cancer Biology</i>                                                                                                                        | 11.00-12.50 | S     | SE9                  | Dr Sujatha Ramasamy                                               | 30<br>0+10 |  |                                                                                |
|                      |                                       |                                                                                                                                                                | 12.00-12.50 | K     | SE9                  |                                                                   |            |  |                                                                                |
| SIK3012              | 3(T+P)<br>MP: (PB<br>50% + PA<br>50%) | Biologi Sel Stem<br><i>Stem Cell Biology</i>                                                                                                                   | 2.00-3.50   | K     | SE9                  | Dr Shamsul Azlin                                                  | 30         |  |                                                                                |
|                      |                                       | Amali (M8 – M14)                                                                                                                                               | 2.00–4.50   | I     | Mak<br>Projek<br>SBK |                                                                   |            |  |                                                                                |
| SIK3015/<br>SHEK3309 | 3(T+P)                                | Genetik dan Kesihatan Manusia<br><i>Genetics and Human Health</i>                                                                                              | 8.00–8.50   | IR    | SA2                  | Dr Yusrizam Sharifuddin                                           | 30<br>0+10 |  |                                                                                |

|                   |                              |                                                                                         |             |   |                |                                              |            |  |                                                         |
|-------------------|------------------------------|-----------------------------------------------------------------------------------------|-------------|---|----------------|----------------------------------------------|------------|--|---------------------------------------------------------|
|                   | MP: (PB 60% +PA 40%)         | Amali                                                                                   | 9.00–11.50  | I | SBK123         |                                              |            |  | Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2 |
| SIK3016           | 3(T+P) MP: (PB 50% + PA 50%) | Histopatologi<br><i>Histopathology</i>                                                  | 10.00-11.50 | K | SE9            | Prof Dr Nurul Kabir                          | 30         |  |                                                         |
|                   |                              | Amali                                                                                   | 2.00–4.50   | S | Mak Projek SBK |                                              |            |  |                                                         |
| SIK3017           | 3(T+P) MP: (PB 50% + PA 50%) | Kaedah Mikroskopi dalam Sains Kesihatan<br><i>Microscopy Methods in Health Sciences</i> | 2.00–3.50   | R | SA1            | Dr Tiong Yin Xin Sheena<br>Dr Nurul Kabir    | 30         |  |                                                         |
|                   |                              | Amali (M1-M7)                                                                           | 2.00–4.50   | I | SBK123         |                                              |            |  |                                                         |
| SIK3020/ SHEK3304 | 3(T) MP: (PB 40% +PA 60%)    | Penyakit Sistem Saraf Pusat<br><i>Diseases of Central Nervous System</i>                | 9.00-10.50  | S | Vanda          | PM Dr Durriyyah Sharifah Hasan Adli          | 30<br>0+10 |  |                                                         |
|                   |                              |                                                                                         | 9.00-9.50   | K | SE9            |                                              |            |  |                                                         |
| SIK3002           | 7(N) MP: (PB 100%)           | Latihan Industri Sains Biokesihatan<br><i>Industrial Training in Biohealth Science</i>  | 9.00–4.50   | A | Luar kampus    | Prof Dr Salmah Ismail                        | Tiada had  |  | Tiada peperiksaan                                       |
| SIK2005           | 3(T) MP: (PB 40% +PA 60%)    | Fitokimia<br><i>Phytochemistry</i>                                                      | 5.00-5.50   | I | SA3            | Dr Sujatha Ramasamy<br>Dr Nur Airina Muhamad | 1          |  | Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2 |
|                   |                              |                                                                                         | 4.00-5.50   | R |                |                                              |            |  |                                                         |

**PROGRAM GENETIK DAN BIOLOGI MOLEKUL SESI 2019/20 (SEMESTER 2)**

| Kod Kursus/<br>Kertas Bersama | Bil. Jam Kredit<br>(Jenis Kursus)     | Tajuk Kursus                                                             | Masa                  | Hari | Tempat                    | Pensyarah                      | Bilangan Pelajar | Catatan | Tarikh & waktu peperiksaan                                                     |  |
|-------------------------------|---------------------------------------|--------------------------------------------------------------------------|-----------------------|------|---------------------------|--------------------------------|------------------|---------|--------------------------------------------------------------------------------|--|
| SIL2003/<br>SHEN2141          | 3(T+P)<br>MP: PB<br>40% +PA<br>60%    | Genetik Mikrob<br><i>Microbial Genetics</i>                              | 8.00 – 8.50           | SK   | B6                        | Prof. Dr. Jennifer Harikrishna | 30<br>10         | SIL1001 | <i>Jadual<br/>Peperiksaan Akan<br/>Dijana Pada<br/>Minggu 8<br/>Semester 2</i> |  |
|                               |                                       | Amali (Mgu 8 – 14)                                                       | Kump1:<br>2.00 – 4.50 | K    | GBM2.2                    |                                | Kump 2:<br>1+0   |         |                                                                                |  |
|                               |                                       |                                                                          | Kump2:<br>8.00-10.50  | J    | GBM2.2                    |                                |                  |         |                                                                                |  |
| SIL2005;<br>SHEN2144          | 3(T+P)<br>MP: (PB<br>40% + PA<br>60%) | Genetik Evolusi<br><i>Evolutionary Genetics</i>                          | 9.00-9.50             | SK   | B6                        | Dr. Yeoh Suat Hui              | 30<br>10         | SIL1001 |                                                                                |  |
|                               |                                       | Amali (Mgu 8 – 14)                                                       | 2.00-4.50             | S    | GBM2/<br>Mak.<br>Komputer |                                | Kump 2:<br>1+0   |         |                                                                                |  |
|                               |                                       |                                                                          | Kump2:<br>8.00-10.50  | J    | GBM2/<br>Mak.<br>Komputer |                                |                  |         |                                                                                |  |
|                               | 2(T)<br>MP: (PB<br>40% + PA<br>60%)   | Genetik Evolusi<br><i>Evolutionary Genetics</i>                          | 9.00-9.50             | SK   | B6                        |                                | 20+3             |         |                                                                                |  |
|                               |                                       |                                                                          |                       |      |                           |                                |                  |         |                                                                                |  |
| SIL2007/<br>SHEN2146          | 3(T+P)<br>MP: (PB<br>40% + PA<br>60%) | Genetik Kuantitatif<br><i>Quantitative Genetics</i>                      | 11.00-11.50           | IR   | B6                        | PM Dr. Subha Bhassu            | 30<br>10         | SIL2006 |                                                                                |  |
|                               |                                       | Amali (Mgu 1 – 7)                                                        | 2.00 – 4.50           | S    | GBM1/<br>Mak.<br>Komputer |                                |                  |         |                                                                                |  |
| SIL2009/<br>SHEN2242          | 3(T+P)<br>MP: (PB<br>40% + PA<br>60%) | Teknologi DNA Rekombinan<br><i>Recombinant DNA Technology</i>            | 8.00 – 8.50           | IR   | SE9                       | PM Dr Chan Kok Gan             | 30<br>10         |         | <i>Jadual<br/>Peperiksaan Akan<br/>Dijana Pada<br/>Minggu 8<br/>Semester 2</i> |  |
|                               |                                       | Amali (Mgu 8 – 14)                                                       | 2.00 – 4.50           | R    | GBM2                      | PM Dr Nazia Abdul Majid        |                  |         |                                                                                |  |
| SIL2011<br>SHEN2341           | 3(T+P)                                | Sumber Genetik & Konservasi<br><i>Genetic Resources and Conservation</i> | 10.00 -10.50          | SK   | B6                        | Dr. Yeoh Suat Hui              | 30<br>10         | SIL2006 |                                                                                |  |

|                      |                                 |                                                                                             |             |    |                     |                                                                                 |          |                                                    |
|----------------------|---------------------------------|---------------------------------------------------------------------------------------------|-------------|----|---------------------|---------------------------------------------------------------------------------|----------|----------------------------------------------------|
|                      | MP: (PB 40% + PA 60%)           | Amali (Mgu 1 – 7)                                                                           | 2.00 – 4.50 | K  | GBM2/ Mak. Komputer |                                                                                 |          |                                                    |
| SIL2012              | 3(T+P)<br>MP: (PB 40% + PA 60%) | Genetik Tumbuhan dan Manipulasi Gen<br><i>Plant Genetics and Gene Manipulation</i>          | 9.00-9.50   | IR | B6                  | <u>Dr. Nur Ardiyana Rejab</u><br>Dr Tan Boon Chin                               | 30       | SIL2009                                            |
|                      |                                 | Amali (Mgu 1-7)                                                                             | 2.00 -4.50  | I  | GBM1                |                                                                                 |          |                                                    |
| SHEN2240             | 3(T+P)<br>MP: (PB 40% + PA 60%) | Genetik Asas<br><i>Basic Genetics</i>                                                       | 12.00–12.50 | IR | B6                  | Dr. Syarifah Aisyafaznim<br>Sayed Abdul Rahman                                  | 30       |                                                    |
|                      |                                 | Amali (Mgu 8-14)                                                                            | 2.00 – 4.50 | R  | GBM2.2              |                                                                                 |          |                                                    |
| SIL2013              | 3(T+P)<br>MP: (PB 40% + PA 60%) | Genetik Haiwan dan Manipulasi Gen<br><i>Animal Genetics and Gene manipulation</i>           | 10.00-10.50 | IR | B6                  | <u>PM Dr. Subha Bhassu</u><br>Dr. Lim Yat Yuen                                  | 30       | SIL2009                                            |
|                      |                                 | Amali (Mgu 8-14)                                                                            | 2.00 -4.50  | I  | GBM2.1              |                                                                                 |          |                                                    |
| SHEN2344             | 3(T+P)<br>MP: (PB 40% + PA 60%) | Manipulasi Genetik Tumbuhan dan Haiwan<br><i>Genetic Manipulation of Plants and Animals</i> | 12.00-12.50 | SK | BT18                | <u>Dr. Tan Boon Chin</u><br>Dr. Teo Chee How                                    | 10       |                                                    |
|                      |                                 | Amali (Mgu 1-7)                                                                             | 2.00-4.50   | S  | GMB2.1              |                                                                                 |          |                                                    |
| SHEN2343             | 3(T+P)<br>MP: (PB 40% + PA 60%) | Genetik Tumbuhan Dan Haiwan<br><i>Plant and Animal Genetics</i>                             | 11.00-11.50 | SK | BT18                | <u>Dr. Teo Chee How</u><br>Dr. Tan Boon Chin                                    | 20       | Tidak bersama SHET 2102; Khas pelajar Genetik      |
|                      |                                 | Amali (Mgu 8 – 14)                                                                          | 2.00 – 4.50 | K  | GBM1                |                                                                                 |          |                                                    |
| SIL3007/<br>SHEN3143 | 3(T+P)<br>MP: (PB 40% + PA 60%) | Biologi Molekul Tumbuhan<br><i>Molecular Biology of Plants</i>                              | 12.00-12.50 | SK | B6                  | <u>Dr. Nur Ardiyana Rejab</u><br>Dr. Syarifah Aisyafaznim<br>Sayed Abdul Rahman | 30<br>10 | SIL1001; Only for students from Genetics Programme |
|                      |                                 | Amali (Mgu 1-7)                                                                             | 2.00 – 4.50 | K  | GBM2.1              |                                                                                 |          |                                                    |
| SIL3008/<br>SHEN3144 | 3(T+P)                          | Genetik Manusia<br><i>Human Genetics</i>                                                    | 11.00-11.50 | SK | B6                  | Prof Dr Zulqarnain Mohamed                                                      | 30<br>10 | SIL1001                                            |
|                      |                                 | Amali (Mgu 8-14)                                                                            | 2.00 – 4.50 | S  | B6                  |                                                                                 |          |                                                    |
| SIL3009              | 3(T+P)                          | Epigenetik dan Regulasi Gen<br><i>Epigenetics and Gene Regulation</i>                       | 10.00-10.50 | SK | BT18                | Dr. Lim Yat Yuen                                                                | 30       | SIL2008 and SIL2002                                |

*Jadual  
Peperiksaan Akan  
Dijana Pada  
Minggu 8  
Semester 2*

|                                   |                                 |                                                                                   |              |    |        |                                           |              |                                                                                     |                   |
|-----------------------------------|---------------------------------|-----------------------------------------------------------------------------------|--------------|----|--------|-------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------|
|                                   | MP: (PB 40% + PA 60%)           | Amali (Mgu 8-14)                                                                  | 2.00-4.50    | K  | GBM2.1 |                                           |              |                                                                                     |                   |
| SIL3014/<br>SHEN3152              | 3(T+P)<br>MP: (PB 40% + PA 60%) | Imunogenetik Lanjutan<br><i>Advanced Immunogenetics</i>                           | 10.00-10.50  | IR | BT18   | Dr Norhafiza Mohd Arshad                  | 30<br>10     | SIL2010                                                                             |                   |
|                                   |                                 | Amali (Mgu 8-14)                                                                  | 2.00 – 4.50  | R  | B6     |                                           |              |                                                                                     |                   |
| SIL3001/<br>SHEN3184/<br>SHEN4180 | 10(N)<br>MP: (PB 100%)          | Projek Genetik & Biologi Molekul<br><i>Genetics and Molecular Biology Project</i> | Tiada Kuliah |    |        | Dr. Lim Yat Yuen<br>Dr Nur Ardiyana Rejab | Tiada<br>had | Had completed 4 semesters and 50 credits; Only for students from Genetics Programme | Tiada peperiksaan |

| PROGRAM MIKROBIOLOGI SESI 2019/20 (SEMESTER 2) |                                   |                                                                                                                               |              |      |        |                                                                      |                  |                                                    |                                                                |
|------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|------|--------|----------------------------------------------------------------------|------------------|----------------------------------------------------|----------------------------------------------------------------|
| Kod Kursus/<br>Kertas Bersama                  | Bil. Jam Kredit<br>(Jenis Kursus) | Tajuk Kursus                                                                                                                  | Masa         | Hari | Tempat | Pensyarah                                                            | Bilangan Pelajar | Catatan                                            | Tarikh & waktu peperiksaan                                     |
| SIR2002                                        | 3(T+P)<br>MP: (PB 100%)           | Instrumentasi, Kaedah Mikrobiologi dan Pengurusan Data<br><i>Instrumentation, Methods in Microbiology and Data Management</i> | 11.00–11.50  | IR   | BT17   | <u>Dr Tang Swee Seong</u><br>Dr Taznim Begam<br>PM Dr Lee Choon Weng | 30               | SIE1001, SIR2004 untuk pelajar Mikrobiologi sahaja | Tiada Peperiksaan                                              |
|                                                |                                   | Amali (Mgu 1 – 7)                                                                                                             | 2.00 – 4.50  | I    | M1     |                                                                      |                  |                                                    |                                                                |
| SIR2004 / SHEQ2201                             | 3(T+P)<br>MP: PB 40% +PA 60%      | Mikrobiologi Am<br><i>General Microbiology</i>                                                                                | 10.00-10.50  | IR   | BT17   | <u>Dr Nurul Shamsinah Mohd Suhaimi</u>                               | 60<br>10         | SIJ1001                                            | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|                                                |                                   | Amali (Mgu 1 – 7)                                                                                                             | 2.00 – 4.50  | I    | GBM2   |                                                                      |                  |                                                    |                                                                |
| SIR2010                                        | 3(T+P)<br>MP: (PB 40% +PA 60%)    | Imunologi<br><i>Immunology</i>                                                                                                | 11.00 –11.50 | SK   | BT17   | <u>Dr Taznim Begam</u>                                               | 30               | SIL1001, untuk pelajar Mikrobiologi sahaja         |                                                                |
|                                                |                                   | Amali (Mgu 8 – 14)                                                                                                            | 2.00 – 4.50  | S    | M1     |                                                                      |                  |                                                    |                                                                |
| SIR2007                                        | 3(T+P)<br>MP: PB 40% +PA 60%      | Virologi<br><i>Virology</i>                                                                                                   | 10.00-10.50  | IR   | BT18   | <u>Dr Jasmine Khairat</u><br>Prof Dr Rofina Yasmin Othman            | 30               | SIR2004                                            |                                                                |
|                                                |                                   | Amali (Mgu 1-7)                                                                                                               | 2.00 – 4.50  | R    | M1     |                                                                      |                  |                                                    |                                                                |
| SIR2008 / SHEQ2206                             | 3(T+P)<br>MP: PB 40% +PA 60%      | Fisiologi dan Biokimia Mikrob<br><i>Microbial Physiology and Biochemistry</i>                                                 | 9.00–9.50    | IR   | BT17   | <u>Dr Bong Chui Wei</u>                                              | 60<br>10         | SIJ1001                                            |                                                                |
|                                                |                                   | Amali (Mgu 8 -14)                                                                                                             | 2.00 – 4.50  | I    | M1     |                                                                      |                  |                                                    |                                                                |
| SIR2009                                        | 3(T+P)<br>MP: PB 40% +PA 60%      | Ekologi Mikroorganisma<br><i>Microbial Ecology</i>                                                                            | 9.00 – 10.50 | K    | BT17   | <u>PM Dr Lee Choon Weng</u>                                          | 30               | SIE1001, SIH1001                                   |                                                                |
|                                                |                                   | Amali (Mgu 1-7)                                                                                                               | 2.00 – 4.50  | K    | M1     |                                                                      |                  |                                                    |                                                                |

|         |                                       |                                                                  |               |    |      |                                                 |    |                     |  |
|---------|---------------------------------------|------------------------------------------------------------------|---------------|----|------|-------------------------------------------------|----|---------------------|--|
| SIR2006 | 3(T+P)<br>MP: (PB<br>40% + PA<br>60%) | Bakteriologi II<br>( <i>Bacteriology II</i> )                    | 12.00-12.50   | IR | BT17 | <u>PM Dr Geok Yuan Annie Tan</u>                | 30 | SIE1001             |  |
|         |                                       | Amali (Mgu 8 - 14)                                               | 2.00 – 4.50   | R  | M1   |                                                 |    |                     |  |
| SIR2003 | 3(T+P)<br>MP: (PB<br>50% + PA<br>50%) | Mikrobiologi Makanan<br><i>Food Microbiology</i>                 | 9.00–10.50    | S  | BT17 | <u>Dr Nurul Shamsinah Mohd<br/>Suhaimi</u>      | 30 | SIR2004,<br>SIR2005 |  |
|         |                                       | Amali (Mgu 1 – 7)                                                | 2.00 – 4.50   | S  | M1   |                                                 |    |                     |  |
| SIR3006 | 3(T+P)<br>MP: PB 50%<br>+PA 50%       | Mikrobiologi Kesihatan Awam<br><i>Public Health Microbiology</i> | 11.00 – 11.50 | SK | B12  | <u>PM Dr Geok Yuan Annie Tan</u>                | 30 | SIR2005,<br>SIR2007 |  |
|         |                                       | Amali (Mgu 8 – 14)                                               | 2.00 – 4.50   | S  | M2   |                                                 |    |                     |  |
| SIR3010 | 3(T+P)<br>MP: PB 50%<br>+PA 50%       | Mikrobiologi Diagnostik<br><i>Diagnostic Microbiology</i>        | 9.00 - 10.50  | S  | B12  | <u>Dr Jasmine Khairat</u><br>Dr Tang Swee Seong | 30 | SIR2004,<br>SIR2007 |  |
|         |                                       | Amali (Mgu 1– 7)                                                 | 2.00 – 4.50   | S  | M2   |                                                 |    |                     |  |
| SIR3012 | 3(T+P)<br>MP: PB 40%<br>+PA 60%       | Mikrobiologi Pertanian<br><i>Agricultural Microbiology</i>       | 12.00-12.50   | IR | B12  | <u>Dr Khanom Simarani</u>                       | 30 | SIR2004,<br>SIR2008 |  |
|         |                                       | Amali (Mgu 8 – 14)                                               | 2.00 – 4.50   | I  | M2   |                                                 |    |                     |  |
| SIR3011 | 3(T+P)<br>MP: PB 40%<br>+PA 60%       | Teknologi Penapaian<br><i>Fermentation Technology</i>            | 9.00 – 9.50   | IR | B12  | <u>Dr Khanom Simarani</u>                       | 30 | SIR2004,<br>SIR2001 |  |
|         |                                       | Amali (Mgu 1 – 7)                                                | 2.00 – 4.50   | I  | M2   |                                                 |    |                     |  |
| SIR3008 | 3(T+P)<br>MP: PB 40%<br>+PA 60%       | Mikrobiologi Farmaseutik<br><i>Pharmaceutical Microbiology</i>   | 11.00–11.50   | IR | B12  | <u>PM Dr Geok Yuan Annie Tan</u>                | 30 | SIR2008             |  |
|         |                                       | Amali (Mgu 1– 7)                                                 | 2.00 – 4.50   | R  | M2   |                                                 |    |                     |  |

|         |                                 |                                                                             |              |    |     |                                   |           |                                                                                   |                                                                |
|---------|---------------------------------|-----------------------------------------------------------------------------|--------------|----|-----|-----------------------------------|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|
| SIR3016 | 2(T+P)<br>MP: (PB 100%)         | Biokimia Mikrob Lanjutan<br><i>Advanced Microbial Biochemistry</i>          | 9.00-10.50   | K  | B12 | <u>Dr Tang Swee Seong</u>         | 30        | SIR2008                                                                           | Tiada Peperiksaan                                              |
| SIR3013 | 3(T+P)<br>MP: (PB 50% + PA 50%) | Mikrobiologi Marin dan Estuarin<br><i>Marine and Estuarine Microbiology</i> | 10.00–10.50  | IR | B12 | <u>PM Dr Lee Choon Weng</u>       | 30        | SIR2009                                                                           | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|         |                                 | Amali (Mgu 8 – 14)                                                          | 2.00 – 4.50  | R  | M2  |                                   |           |                                                                                   |                                                                |
| SIR3001 | 8 (N)<br>MP: (PB 100%)          | Projek Penyelidikan Mikrobiologi<br><i>Research Project in Microbiology</i> | Tiada Kuliah |    |     | <u>PM Dr. Geok Yuan Annie Tan</u> | Tiada Had | SIR2002, SIR2004                                                                  | Tiada Peperiksaan                                              |
| SIR3002 | 7 (N)<br>MP: (PB 100%)          | Latihan Industri Mikrobiologi<br><i>Industrial Training in Microbiology</i> | Tiada Kuliah |    |     | <u>Dr Taznim Begam</u>            | Tiada Had | Bagi SIR3002 SIR 2003, SIR 3006. Tempoh minimum latihan industri ialah 14 minggu. | Tiada Peperiksaan                                              |

| PROGRAM BIOTEKNOLOGI SESI 2019/2020 (SEMESTER 2) |                                   |                                                                       |                            |        |                        |                                          |                  |                                                                                                                                                          |                                                                |
|--------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------|----------------------------|--------|------------------------|------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Kod Kursus/<br>Kertas Bersama                    | Bil. Jam Kredit<br>(Jenis Kursus) | Tajuk Kursus                                                          | Masa                       | Har i  | Tempat                 | Pensyarah                                | Bilangan Pelajar | Catatan                                                                                                                                                  | Tarikh & waktu peperiksaan                                     |
| SIO 1001                                         | 2 (T)<br>MP: PB 50%<br>+PA 50%    | Fizik Asas<br><i>Basic Physics</i>                                    | 2.00 – 4.00                | R      | Vanda                  | <u>Dr M. Vijayan a/l Manickam Achari</u> | 90               | Core<br>Hanya untuk pelajar Bioteknologi dan <b>Pelajar Pendidikan.</b> Lulus Fizik (SPM)                                                                | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
| SIJ1002                                          | 3 (T)<br>MP: (PB 40% + PA 60%)    | Kimia Asas<br><i>Fundamentals of Chemistry</i>                        | 2.00 - 3.50<br>200 - 2.50  | S<br>K | SBK                    | Prof Dr. Saad Tayyab                     | 60               | Core<br><i>'Diambil bersama pelajar Biokimia'</i>                                                                                                        |                                                                |
| SHET2102                                         | 3(T+P)<br>MP: PB 40%<br>+PA 60%   | Bioteknologi Tumbuhan<br><i>Plant Biotechnology</i>                   | 11.00 - 11.50              | I      | BS5&6                  | <u>Dr. Zuliana Razali</u>                | 0+10             | Core<br>Pelajar SMPIS 3 orang bagi Kohort 2017 / 2018                                                                                                    |                                                                |
|                                                  |                                   | R                                                                     |                            | BS7&8  |                        |                                          |                  |                                                                                                                                                          |                                                                |
|                                                  |                                   | Amali                                                                 | 2.00 – 4.50                | R      | BT2                    |                                          |                  |                                                                                                                                                          |                                                                |
| SIO2002                                          | 3(T+P)<br>MP: PB 40%<br>+PA 60%   | Bioteknologi Haiwan<br><i>Animal Biotechnology</i>                    | 11.00 -12.50               | S      | BT1                    | <u>Dr. Nuradilla Mohamad Fauzi</u>       | 35               | Core<br>Hanya untuk pelajar Bioteknologi. Pra-syarat lulus <i>Life Processes</i> Tahap 1. (SIJ1001)                                                      |                                                                |
|                                                  |                                   | Amali                                                                 | 2.00-4.50                  | I      | BT2 & Ladang Mini ISB  | Dr. Norhidayah Mohd Taufek               |                  |                                                                                                                                                          |                                                                |
| SIO2003                                          | 3 (T+P)<br>MP: PB 40%<br>+PA 60%  | Fisiologi Tumbuhan Peringkat Tinggi<br><i>Higher Plant Physiology</i> | 10.00-10.50<br>12.00-12.50 | S<br>K | Projek BT<br>Projek BT | <u>Dr. Jamilah Syafawati Yaacob</u>      | 35               | Core<br><b>Semester 2 untuk pelajar Bioteknologi sahaja.</b> Pra-syarat <i>Life Processes</i> Tahap 1 (SIJ1001) - <b>'SIP students intake 2018/2019'</b> |                                                                |
|                                                  |                                   | Amali                                                                 | 2.00-4.50                  | S      | BT1                    |                                          |                  |                                                                                                                                                          |                                                                |
| SIO2004                                          | 3(T+ P)<br>MP: PB 40%<br>+PA 60%  | Kultur Sel & Tisu<br><i>Cell and Tissue Culture</i>                   | 10.00-10.50                | I      | BT1                    | <u>Dr. Jamilah Syafawati Yaacob</u>      | 40               | Core<br><b>Semester 2 untuk pelajar Bioteknologi</b>                                                                                                     | <i>Jadual Peperiksaan Akan Dijana</i>                          |

|                    |                            |                                                                                            |              |   |           |                                        |       |                                                                                                                                                            |                                                                |
|--------------------|----------------------------|--------------------------------------------------------------------------------------------|--------------|---|-----------|----------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|                    |                            |                                                                                            | 10.00-10.50  | K | BT1       | Dr. Nuradilla Mohd Fauzi               |       | dan <b>Pelajar SMPIS pada Tahun 3 Semester 6</b> sahaja<br>Pra-syarat <i>Cell Biology</i> SIL1001 and <i>Biology Practical</i> SIK1001                     | <i>Pada Minggu 8 Semester 2</i>                                |
|                    |                            | Amali                                                                                      | 2.00-4.50    | R | MAK B 2.5 |                                        |       |                                                                                                                                                            |                                                                |
| SIO2008 / SHET3102 | 2(T)<br>MP: (PB 100%)      | Bioinformatik Asas<br><i>Basic Bioinformatics</i>                                          | 9.00 -10.40  | R | BIM2      | <u>PM Dr Chandran</u>                  | 25    | <i>Core</i><br>Tidak boleh diambil oleh pelajar Bioinformatik. Pra-syarat <i>Structure and Function of Biomolecules</i> (SIJ2002)                          | Tiada peperiksaan                                              |
| SIO2005            | 2(T)<br>MP: (PB 100%)      | Teknik-teknik Analisis dalam Bioteknologi<br><i>Analytical Techniques in Biotechnology</i> | 8.00 – 9.50  | I | BT1       | <u>Dr Norhidayah Mohd Taufek</u>       | 35    | <i>Core Semester 2 untuk pelajar Bioteknologi</i> dan <b>Pelajar SMPIS pada Tahun 3 Semester 6</b> sahaja<br>Pra-syarat <i>Biology Practical</i> (SIK1001) | Tiada peperiksaan                                              |
| SIO2009            | 3(T)<br>MP: PB 40% +PA 60% | Metabolit Sekunder dan Metabolomik<br><i>Secondary Metabolites and Metabolomics</i>        | 11.00 -12.50 | I | BT1       | <u>Dr. Mohd Zuwairi Saiman</u>         | 35    | <i>Core</i><br>Hanya untuk pelajar Bioteknologi. Pra-syarat <i>Cell Biology</i> (SIL1001)                                                                  | <i>Jadual Peperiksaan Akan Dijana Pada Minggu 8 Semester 2</i> |
|                    |                            |                                                                                            | 11.00 -11.50 | R | S9&S10    |                                        |       |                                                                                                                                                            |                                                                |
| SIO3002            | 2(T)<br>MP: (PB 100%)      | Penyelidikan & Komersialisasi<br><i>Research and Commercialisation of Biotechnology</i>    | 9.00 - 10.50 | I | Projek BT | <u>Prof Dr. Vikineswary Sabaratnam</u> | 35    | <i>Core</i><br>Untuk pelajar Bioteknologi, <i>Applied microbiology</i> (SIO2001)                                                                           | Tiada peperiksaan                                              |
| SIO3015 / SHET3104 | 2(T)<br>MP: (PB 100%)      | Isu Semasa Bioteknologi<br><i>Current Issues in Biotechnology</i>                          | 2.00 – 3.50  | R | Projek BT | <u>Dr. Acga Cheng</u>                  | 35+10 | <i>Core</i><br>Untuk pelajar Bioteknologi, <i>Applied microbiology</i> (SIO2001)                                                                           | Tiada peperiksaan                                              |

|                      |                                  |                                                                                                                  |                                               |                 |                                   |                                                                                  |       |                                                                                                                                                                                                                                                      |                                                                     |                                                                     |
|----------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------|-----------------------------------|----------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
|                      |                                  |                                                                                                                  |                                               |                 |                                   |                                                                                  |       |                                                                                                                                                                                                                                                      |                                                                     |                                                                     |
| SIO3004              | 3(T+P)<br>MP: PB 40%<br>+PA 60%  | Biopemisahan<br><i>Bioseparation</i><br><br>Amali                                                                | 12.00-12.50<br>11.00-11.50<br><br>2.00 – 4.50 | I<br>R<br><br>R | Projek BT<br>Projek BT<br><br>BT1 | Dr. Ahmad Faris Mohd<br>Adnan                                                    | 35    | Core<br>Untuk pelajar<br>Bioteknologi. Pra-<br>syarat <i>Basic Physics</i><br>SIO1001                                                                                                                                                                | Jadual<br>Peperiksaan<br>Akan Dijana<br>Pada Minggu<br>8 Semester 2 |                                                                     |
| SIO3010/<br>SHET3305 | 3(T)<br>MP: PB 40%<br>+PA 60%    | Bioteknologi Marin<br><i>Marine Biotechnology</i>                                                                | 1.00-1.50<br><br>12.00-1.50                   | S<br><br>K      | Projek BT                         | Dr. Nuradilla Mohamad<br>Fauzi<br><br>Prof Dr Lim Phaik Eem<br>PM Dr Lim Po Teen | 35+15 | Elective<br>Pra-syarat SHES1200,<br>( <i>Applied Microbiology</i><br>SIO2001)<br>and<br>Core course for<br>SMPIS student batch<br>2017/2018 (8<br>students)                                                                                          |                                                                     |                                                                     |
| SIO3011/<br>SHET3306 | 3(T)<br>MP: PB 40%<br>+PA 60%    | Morfogenesis<br>Tumbuhan<br><i>Plant Morphogenesis</i>                                                           | 2.00 - 4.50<br>11.00 – 11.50                  | I<br>K          | Projek BT<br>SA1                  | Dr Mohd Zuwairi Saiman<br><br>Dr. Jamilah Syafawati<br>Yaacob                    | 35+15 | Elective<br>Untuk pelajar<br>Bioteknologi. Pra-syarat<br>SHET2108. (SIO2004<br>Semester 2 untuk<br>pelajar Bioteknologi<br>dan Pelajar SMPIS pada<br>Tahun 4 Semester 8<br>sahaja                                                                    |                                                                     |                                                                     |
| SIO2007              | 3(T+ P)<br>MP: PB 40%<br>+PA 60% | Biologi Molekul dan<br>Kejuruteraan Genetik<br><i>Molecular Biology and<br/>Genetic Engineering</i><br><br>Amali | 12.00 -12.50<br>9.00 -9.50<br><br>2.00 - 4.50 | R<br>K<br><br>K | Projek BT<br>Projek BT<br><br>BT1 | Dr. Nuradilla Mohamad<br>Fauzi<br><br>Dr. Acga Cheng<br>Prof Dr. Lim Phaik Eem   | 35    | Core<br>Untuk pelajar<br>Bioteknologi. Pra-syarat<br>Biologi Tahap 1<br><i>Cell Biology</i> SIL1001 dan<br><i>Biology Practical</i><br>SIK1001<br>Semester 2 untuk<br>pelajar Bioteknologi<br>dan Pelajar SMPIS pada<br>Tahun 4 Semester 8<br>sahaja |                                                                     | Jadual<br>Peperiksaan<br>Akan Dijana<br>Pada Minggu<br>8 Semester 2 |

|                                   |                                |                                                                                                     |                                                   |                 |                             |                                       |              |                                                                                                                                                                                                                                                       |                                                                                |
|-----------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------|-----------------------------|---------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| SIO3005/<br>SHET3180/<br>SHET4180 | 10(N)<br>MP: (PB<br>100%)      | Projek Bioteknologi<br><i>Biotechnology Project</i>                                                 | 9.00 – 4.50                                       | J,<br>Sb        | Projek BT                   | <u>Dr Acga Cheng</u>                  | Tiada<br>Had | Core<br>Hanya untuk pelajar<br>Bioteknologi. Pra-syarat<br>Semester 5 dan lengkap<br>50 kredit, SHET2190,<br>SHET2110. ( <i>Basic<br/>Physics</i> SIO1001, <i>Animal<br/>Biotechnology</i> SIO2002<br>dan <i>Cell and Tissue<br/>Culture</i> SIO2004) | Tiada<br>peperiksaan                                                           |
| SIO3014                           | 3 (T)<br>MP: PB 40%<br>+PA 60% | Aquaculture Nutrition<br><i>Nutrisi akuakultur</i><br><br>Amali                                     | 11.00 – 11.50<br>12.00 – 12.50<br><br>2.00 – 4.50 | I<br>R<br><br>S | Projek BT<br>BT1<br><br>BT2 | <u>Dr. Norhidayah Mohd<br/>Taufek</u> | 35           | <i>Elective</i><br>Pra-syarat <i>Life<br/>processes</i> SIJ1001                                                                                                                                                                                       | <i>Jadual<br/>Peperiksaan<br/>Akan Dijana<br/>Pada Minggu<br/>8 Semester 2</i> |
| SIO3009 /<br>SHET3303             | 3 (T)<br>MP: PB 60%<br>+PA 40% | Bioteknologi<br>Pengurusan Alam<br>Sekitar<br><i>Environmental<br/>Management<br/>Biotechnology</i> | 9.00 - 10.50<br><br>9.00 - 9.50                   | R<br><br>K      | BT1<br><br>BT1              | <u>PM Dr. Tan Yee Shin</u>            | 35 + 1       | <i>Elective</i><br>PBL Khas untuk pelajar<br>Bioteknologi. Pra-syarat<br><i>Applied Microbiology</i><br>SIO2001 dan <i>Molecular<br/>Biology and Genetic<br/>Engineering</i> SIO2007                                                                  |                                                                                |
| SIO3006                           | 7 (N)<br>MP: (PB<br>100%)      | Latihan Industri Dalam<br>Bioteknologi<br><i>Industrial Training in<br/>Biotechnology</i>           | Tiada Kuliah                                      |                 |                             | <u>Dr Mohd Zuwairi Saiman</u>         | Tiada<br>Had | Untuk pelajar Bioteknologi.<br>Pra-syarat telah<br>menyempurnakan empat (4)<br>semester biasa dan 50 jam<br>kredit. <i>Research and<br/>Commercialization in<br/>Biotechnology</i> SIO3002                                                            | Tiada<br>Peperiksaan                                                           |