

# JADUAL WAKTU KURSUS PROGRAM PhD DAN MASTER SAINS (SECARA PENYELIDIKAN)

(COURSES OFFERED FOR PHD/ MASTER OF SCIENCE (BY RESEARCH))

## SEMESTER PERTAMA 2022/2023

(FIRST SEMESTER 2022/2023)

### KURSUS YANG DITAWARKAN

(COURSE OFFERED)

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecturer/Coordinator)
1.	SSK5090	<i>Research Methods in Computer Science</i> (Kumpulan 1) (Group 1)	Rabu <i>Wednesday</i> 9.00am-12.00pm Dewan Kuliah Utama, Blok A <i>Main Lecture Hall</i>	Assoc. Prof. Dr. Masrah Azrifah Azmi Murad <a href="mailto:masrah@upm.edu.my">masrah@upm.edu.my</a>
2.	SSK5200	<i>Directed Reading in Computer Science</i>	Sila rujuk penyelia/penasihat <i>Please refer to the supervisor/advisor</i>	Penyelia/Penasihat <i>Supervisor/Advisor</i>

#### Other Requirements

##### **Master of Science**

- SPS5999 Master Research – EVERY semester
- SPS5903 Seminar (Research Proposal) – the course **should be registered** at least on or before 2<sup>nd</sup> semester.

##### **PhD**

- SPS6999 Doctoral Research – EVERY semester
- SPS6903 Seminar (Research Proposal) – the course **should be registered** at least on or before 2<sup>nd</sup> semester.

**JADUAL WAKTU KURSUS PROGRAM MASTER SAINS KOMPUTER**  
*(FOR MASTER OF COMPUTER SCIENCE)*  
**SEMESTER PERTAMA 2022/2023**  
*(FIRST SEMESTER 2022/2023)*  
**KURSUS YANG DITAWARKAN**  
*(COURSE OFFERED)*

**Kursus Prasyarat** (*Prerequisite Course*)

<b>Bil.</b>	<b>Kod Kursus</b> <i>(Course Code)</i>	<b>Tajuk Kursus</b> <i>(Course Title)</i>	<b>Waktu/Bilik Kuliah</b> <i>(Time/Venue)</i>	<b>Pensyarah/Penyelaras</b> <i>(Lecture/Coordinator)</i>
1.	SSE5101	Pengaturcaraan dan Penyelesaian Masalah Berasaskan Komputer <i>Programming and Computer-based Problem Solving</i>	Isnin <i>Monday 6.30-9.30pm</i> Bilik Kuliah 2, Blok A <i>Lecture Room 2</i>	Ts. Dr. Muhamad Sufri Muhammad <a href="mailto:sufry@upm.edu.my">sufry@upm.edu.my</a>

**Kursus Teras** (*Core Courses*)

<b>Bil.</b>	<b>Kod Kursus</b> <i>(Course Code)</i>	<b>Tajuk Kursus</b> <i>(Course Title)</i>	<b>Waktu/Bilik Kuliah</b> <i>(Time/Venue)</i>	<b>Pensyarah/Penyelaras</b> <i>(Lecture/Coordinator)</i>
1.	SSK5090	Kaedah Penyelidikan dalam Sains Komputer <i>Research Methods in Computer Science</i> <b>(Group 1- Master and PhD by research)</b>	Rabu <i>Wednesday 9.00am-12.00pm</i> Dewan Kuliah Utama, Blok A <i>Main Lecture Hall</i>	Assoc. Prof. Dr. Masrah Azrifah Azmi Murad <a href="mailto:masrah@upm.edu.my">masrah@upm.edu.my</a>
2.	SSK5090	Kaedah Penyelidikan dalam Sains Komputer <i>Research Methods in Computer Science</i> <b>(Group 2- Master of Computer Science and Master of Information Security)</b>	Rabu <i>Wednesday 6.00-9.00pm</i> Bilik Kuliah 1, Blok A <i>Lecture Room 1</i>	Assoc. Prof. Dr. Azizol Abdullah <a href="mailto:azizol@upm.edu.my">azizol@upm.edu.my</a>
3.	SSK5221	Internet Benda <i>Internet of Things</i>	Khamis <i>Thursday 6.30-9.30pm</i> Bilik Kuliah 1, Blok A <i>Lecture Room 1</i>	Ts. Dr. Raihani Mohamed <a href="mailto:raihanimohamed@upm.edu.my">raihanimohamed@upm.edu.my</a>
4.	SSK5212	Teknologi Data Raya <i>Big Data Technology</i>	Selasa <i>Tuesday 6.30-9.30pm</i> Dewan Kuliah Utama, Blok A <i>Main Lecture Hall</i>	Ts. Dr. Iskandar Ishak <a href="mailto:iskandar_i@upm.edu.my">iskandar_i@upm.edu.my</a>
5.	SKR5306	Rangkaian Komputer Lanjutan <i>Advanced Computer Networks</i>	Jumaat <i>Friday 6.30-9.30pm</i> Bilik Kuliah 1, Blok A <i>Lecture Room 1</i>	En. Ahmad Alauddin Ariffin <a href="mailto:alauddin@upm.edu.my">alauddin@upm.edu.my</a>
6.	SSK5989	Disertasi <i>Dissertation</i>	Sila rujuk penyelaras / <i>Please refer to the coordinator</i>	Penyelaras / <i>Coordinator</i>

**Kursus Elektif** (*Elective courses*)

<b>Bil.</b>	<b>Kod Kursus (Course Code)</b>	<b>Tajuk Kursus (Course Title)</b>	<b>Waktu/Bilik Kuliah (Time/Venue)</b>	<b>Pensyarah/Penyelaras (Lecture/Coordinator)</b>
1.	SSK5606	Pemprosesan Bahasa Tabii Lanjutan <i>Advanced Natural Language Processing</i>	Isnin Monday 6.30-9.30pm Bilik Kuliah Utama, Blok A <i>Main Lecture Hall</i>	Assoc. Prof. Dr. Azreen Azman <a href="mailto:azreenazman@upm.edu.my">azreenazman@upm.edu.my</a>
2.	SKR5308	Sistem Masa Nyata <i>Real-time Systems</i>	Rabu Wednesday 6.30-9.30pm Bilik Kuliah 3, Blok A <i>Lecture Room 3</i>	Ts. Dr. Amir Rizaan Abdul Rahiman <a href="mailto:amir_r@upm.edu.my">amir_r@upm.edu.my</a>

**Pengkhususan – PENGKOMPUTAN TERAGIH***(Specialization – DISTRIBUTED COMPUTING) Compulsory*

<b>Bil.</b>	<b>Kod Kursus (Course Code)</b>	<b>Tajuk Kursus (Course Title)</b>	<b>Waktu/Bilik Kuliah (Time/Venue)</b>	<b>Pensyarah/Penyelaras (Lecturer/Coordinator)</b>
1.	SSK5988	Projek <i>Project</i>	Sila rujuk penyelaras / <i>Please refer to the coordinator</i>	Penyelaras / <i>Coordinator</i>

**JADUAL WAKTU KURSUS PROGRAM MASTER KESELAMATAN MAKLUMAT**  
 (FOR MASTER OF INFORMATION SECURITY)  
**SEMESTER PERTAMA 2022/2023**  
 (FIRST SEMESTER 2022/2023)  
**KURSUS YANG DITAWARKAN**  
 (COURSE OFFERED)

**Kursus Prasyarat (Prerequisite Course)**

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecture/Coordinator)
1.	SSE5101	Pengaturcaraan dan Penyelesaian Masalah Berasaskan Komputer <i>Programming and Computer-based Problem Solving</i>	Isnin Monday 6.30-9.30pm Bilik Kuliah 2, Blok A Lecture Room 2	Ts. Dr. Muhamad Sufri Muhammad <a href="mailto:sufry@upm.edu.my">sufry@upm.edu.my</a>

**Kursus Teras (Core Courses)**

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecture/Coordinator)
1.	SSK5501	Pengurusan Keselamatan Maklumat <i>Information Security Management</i>	Isnin Monday 6.00-9.00pm Bilik Kuliah 3, Blok A Lecture Room 3	Assoc. Prof. Ts. Dr. Nur Izura Udzir <a href="mailto:izura@upm.edu.my">izura@upm.edu.my</a>
2.	SSK5508	Forensik komputer dan Penyiasatan <i>Computer Forensic and Investigation</i>	Selasa Tuesday 6.00-9.00pm Bilik Kuliah 3, Blok A Lecture Room 3	Dr. Mohd Izuan Hafez Hj Ninggal <a href="mailto:mohdizuan@upm.edu.my">mohdizuan@upm.edu.my</a>
3.	SSK5090	Kaedah Penyelidikan dalam Sains Komputer <i>Research Methods in Computer Science</i> <b>Group 2- Master of Computer Science and Master of Information Security)</b>	Rabu Wednesday 6.00-9.00pm Bilik Kuliah 1, Blok A Lecture Room 1	Assoc. Prof. Dr. Azizol Abdullah <a href="mailto:azizol@upm.edu.my">azizol@upm.edu.my</a>
4.	SSK5500	Keselamatan dalam Pengkomputeran <i>Security in Computing</i>	Khamis Thursday 6.00-9.00pm Bilik Kuliah 3, Blok A Lecture Room 3	Dr. Noor Afiza Mohd Ariffin <a href="mailto:noorafiza@upm.edu.my">noorafiza@upm.edu.my</a>
5.	SSK5505	Keselamatan Internet dan Pengkomputeraan Awan <i>Internet and Cloud Computing Security</i>	Jumaat Friday 6.00-9.00pm Bilik Kuliah 3, Blok A Lecture Room 3	Dr. Muhammad Daniel Hafiz Abdullah <a href="mailto:daniel_hafiz@upm.edu.my">daniel_hafiz@upm.edu.my</a>

6.	SSK5980	Seminar dalam Sains Komputer <i>Seminar in Computer Science</i>	Rabu <i>Wednesday</i> 5.30-6.30pm Bilik Seminar A, Blok A <i>Seminar Room A</i>	Penyelaras / Coordinator <a href="mailto:ifah@upm.edu.my">ifah@upm.edu.my</a>
7.	SSK5990	Projek <i>Project</i>	Sila rujuk penyelaras / <i>Please refer to the coordinator</i>	Penyelaras / <i>Coordinator</i>

**Kursus Elektif** (*Elective courses*)

<b>Bil.</b>	<b>Kod Kursus (Course Code)</b>	<b>Tajuk Kursus (Course Title)</b>	<b>Waktu/Bilik Kuliah (Time/Venue)</b>	<b>Pensyarah/Penyelaras (Lecture/Coordinator)</b>
1.	SSK5504	Keselamatan Perisian <i>Software Security</i>	Rabu <i>Wednesday</i> 6.30-9.30pm Bilik Seminar A, Blok A <i>Seminar Room A</i>	Dr. Aziah Asmawi <a href="mailto:a_aziah@upm.edu.my">a_aziah@upm.edu.my</a>

**JADUAL WAKTU KURSUS PROGRAM MASTER KEJURUTERAAN PERISIAN**  
 (FOR MASTER OF SOFTWARE ENGINEERING)  
**SEMESTER PERTAMA 2022/2023**  
 (FIRST SEMESTER 2022/2023)  
**KURSUS YANG DITAWARKAN**  
 (COURSE OFFERED)

**Kursus Prasyarat (Prerequisite Course)**

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecture/Coordinator)
1.	SSE5101	Pengaturcaraan dan Penyelesaian Masalah Berasaskan Komputer <i>Programming and Computer-based Problem Solving</i>	Isnin <i>Monday</i> 6.30-9.30pm Bilik Kuliah 2, Blok A <i>Lecture Room 2</i>	Ts. Dr. Muhamad Sufri Muhammad <a href="mailto:sufry@upm.edu.my">sufry@upm.edu.my</a>

**Kursus Teras (Core Courses)**

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecture/Coordinator)
1.	SSE5203	Pengurusan Projek bagi Pembinaan Perisian <i>Project Management for Software Construction</i>	Isnin <i>Monday</i> 6.30-9.30pm Bilik Kuliah 1, Blok A <i>Lecture Room 1</i>	Dr. Salfarina Abdullah <a href="mailto:salfarina@upm.edu.my">salfarina@upm.edu.my</a>
2.	SSE5091	Kaedah Penyelidikan Empirik bagi Kejuruteraan Perisian <i>Empirical Research Methods for Software Engineering</i>	Selasa <i>Tuesday</i> 6.30-9.30pm Bilik Kuliah 2, Blok A <i>Lecture Room 2</i>	Prof. Madya Ts. Dr. Rodziah Atan <a href="mailto:rodziah@upm.edu.my">rodziah@upm.edu.my</a>
3.	SSE5210	Kaedah Empirik bagi Kejuruteraan Perisian <i>Empirical Methods for Software Engineering</i>	Rabu <i>Wednesday</i> 6.30-9.30pm Bilik Kuliah 2, Blok A <i>Lecture Room 2</i>	Prof. Madya Ts. Dr. Koh Tieng Wei <a href="mailto:twkoh@upm.edu.my">twkoh@upm.edu.my</a>
4.	SSE5302	Kejuruteraan Keperluan <i>Requirements Engineering</i>	Khamis <i>Thursday</i> 6.30-9.30pm Bilik Kuliah 2, Blok A <i>Lecture Room 2</i>	Ts. Dr. Mohd Hafeez Osman <a href="mailto:hafeez@upm.edu.my">hafeez@upm.edu.my</a>
5.	SSE5204	Metodologi Pembangunan Perisian <i>Software Development Methodology</i>	Jumaat <i>Friday</i> 6.30-9.30pm Bilik Kuliah 2, Blok A <i>Lecture Room 2</i>	Prof. Ts. Dr. Rusli Abdullah <a href="mailto:rusli@upm.edu.my">rusli@upm.edu.my</a>

6.	SSE5980	Seminar dalam Kejuruteraan Perisian <i>Seminar in Software Engineering</i>	Isnin Monday 5:30-6:30pm Bilik Seminar A, Blok A <i>Seminar Room A</i>	Penyelaras / <i>Coordinator</i> <a href="mailto:twkoh@upm.edu.my">twkoh@upm.edu.my</a>
7.	SSE5988	Projek <i>Project</i>	Sila rujuk penyelaras / <i>Please refer to the coordinator</i>	Penyelaras / <i>Coordinator</i>

### Kursus Elektif (*Elective Courses*)

<b>Bil.</b>	<b>Kod Kursus (Course Code)</b>	<b>Tajuk Kursus (Course Title)</b>	<b>Waktu/Bilik Kuliah (Time/Venue)</b>	<b>Pensyarah/Penyelaras (Lecture/Coordinator)</b>
1.	SSE5205	Seni Bina dan Reka Bentuk Perisian <i>Software Architecture and Design</i>	Selasa Tuesday 6.30-9.30pm Bilik Seminar A, Blok A <i>Seminar Room A</i>	Prof. Madya Ts. Dr. Novia Admodisastro <a href="mailto:novia@upm.edu.my">novia@upm.edu.my</a>
2.	SSE5301	Reka Bentuk Pengalaman Pengguna <i>User Experience Design</i>	Rabu Wednesday 6.30-9.30pm Dewan Kuliah Utama, Blok A <i>Main Lecture Hall</i>	Dr. Azrina Kamaruddin <a href="mailto:azrina@upm.edu.my">azrina@upm.edu.my</a>
3.	SSE5212	Antara Muka Manusia-Komputer <i>Human-Computer Interface</i>	Rabu Wednesday 6.30-9.30pm Makmal Kejuruteraan Perisian 1 <i>Software Engineering Lab 1</i>	Ts. Dr. Khaironi Yatim Sharif <a href="mailto:khaironi@upm.edu.my">khaironi@upm.edu.my</a>

**JADUAL WAKTU KURSUS PROGRAM MASTER RANGKAIAN KOMPUTER**  
 (FOR MASTER OF COMPUTER NETWORK)  
**SEMESTER PERTAMA 2022/2023**  
 (FIRST SEMESTER 2022/2023)  
**KURSUS YANG DITAWARKAN**  
 (COURSE OFFERED)

**Kursus Prasyarat (Prerequisite Course)**

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecture/Coordinator)
1.	CNS3200	Komunikasi dan Rangkaian Komputer <i>Computer Network and Communication</i>	Isnin Monday 6.00-9.00pm Khamis Thursday 6.00-9.00pm Makmal Rangkaian 1 Network Laboratory	Assoc. Prof. Ts. Dr. Abdullah Muhammed <a href="mailto:abdullah@upm.edu.my">abdullah@upm.edu.my</a>

**Kursus Teras (Core Courses)**

Bil.	Kod Kursus (Course Code)	Tajuk Kursus (Course Title)	Waktu/Bilik Kuliah (Time/Venue)	Pensyarah/Penyelaras (Lecture/Coordinator)
1.	SKR5090	Kaedah Penyelidikan dalam Rangkaian Komputer <i>Research Methods in Computer Network</i>	Isnin Monday 6.30-9.30pm Makmal Kejuruteraan Perisian 1 Software Engineering Lab 1	Prof. Ts. Dr. Zuriati Ahmad Zukarnain <a href="mailto:zuriati@upm.edu.my">zuriati@upm.edu.my</a>
2.	SKR5406	Seni Bina Pengkomputeran Awan <i>Cloud Computing Architecture</i>	Selasa Tuesday 6.30-9.30pm Bilik Kuliah 1, Blok A Lecture Room 1	Assoc. Prof. Ts. Dr. Masnida Hussin <a href="mailto:masnida@upm.edu.my">masnida@upm.edu.my</a>
3.	SKR5988	Disertasi <i>Disertation</i>	Sila rujuk penyelaras / Please refer to the coordinator	Penyelaras / Coordinator



**Kursus Elektif** (*Elective courses*)

<b>Bil.</b>	<b>Kod Kursus (Course Code)</b>	<b>Tajuk Kursus (Course Title)</b>	<b>Waktu/Bilik Kuliah (Time/Venue)</b>	<b>Pensyarah/Penyelaras (Lecture/Coordinator)</b>
1.	SKR5308	Sistem Masa Nyata <i>Real Time Systems</i>	Rabu <i>Wednesday</i> 6.30-9.30pm Bilik Kuliah 3, Blok A <i>Lecture Room 3</i>	Ts. Dr. Amir Rizaan Abdul Rahiman <a href="mailto:amir_r@upm.edu.my">amir_r@upm.edu.my</a>
2.	SKR5408	Seni Bina Sistem Teragih Data Raya <i>Big Data Distributed System Architecture</i>	Khamis <i>Thursday</i> 6.30-9.30pm Bilik Seminar A, Blok A <i>Seminar Room A</i>	Assoc. Prof. Dr. Nor Asilah Wati Abdul Hamid <a href="mailto:asila@upm.edu.my">asila@upm.edu.my</a>