

JADWAL PEMBELAJARAN QUARTER 1  
PROGRAM TEKNOLOGI INFORMASI - INTERNET-BASED SYSTEM AUTOMATION  
SEMESTER GASAL TA 2024-2025

Tanggal	Hari	Keterangan	Waktu	Chapter	Materi Kelas
01/09	Minggu	Libur Akhir Pekan			
02/09	Senin	Hari Kerja	10.00 - 14.00	1. Things and Connections 2. Sensors, Actuators, and Microcontrollers	Understand the building blocks, interconnections and information flow of an IoT System. Use sensors and an Arduino microcontroller to read data from the physical world and control actuators.
03/09	Selasa	Hari Kerja	10.00 - 14.00		
04/09	Rabu	Hari Kerja	10.00 - 14.00		
05/09	Kamis	Hari Kerja	10.00 - 14.00		
06/09	Jumat	Hari Kerja			
07/09	Sabtu	Libur Akhir Pekan			
08/09	Minggu	Libur Akhir Pekan			
09/09	Senin	Hari Kerja	10.00 - 14.00	3. Software is Everywhere	Use Python to program a Single Board Computer (Raspberry Pi) to perform more complex embedded programs.
10/09	Selasa	Hari Kerja	10.00 - 14.00		
11/09	Rabu	Hari Kerja	10.00 - 14.00		
12/09	Kamis	Hari Kerja			
13/09	Jumat	Hari Kerja			
14/09	Sabtu	Libur Akhir Pekan			
15/09	Minggu	Libur Akhir Pekan			
16/09	Senin	Hari Kerja / Maulid Nabi Muhammad SAW		4. Fog Networks and Cloud Services	Learn the principal IoT Networking Protocols. Learn how an IoT system distributes computing between Fog and Cloud networks. Learn how to interconnect systems using Restful APIs.
17/09	Selasa	Hari Kerja	10.00 - 14.00		
18/09	Rabu	Hari Kerja	10.00 - 14.00		
19/09	Kamis	Hari Kerja	10.00 - 14.00		
20/09	Jumat	Hari Kerja			
21/09	Sabtu	Libur Akhir Pekan			
22/09	Minggu	Libur Akhir Pekan			
23/09	Senin	Hari Kerja	10.00 - 14.00	5. Industrial IoT Applications 6. Create an IoT Solution	Learn how IoT technologies are applied in diverse vertical markets, i.e. Healthcare, Smart Cities, Smart Grid, and Manufacturing. End-to-end case study on how to create an IoT Prototype.
24/09	Selasa	Hari Kerja	10.00 - 14.00		
25/09	Rabu	Hari Kerja	10.00 - 14.00		
26/09	Kamis	Hari Kerja			
27/09	Jumat	Hari Kerja			
28/09	Sabtu	Libur Akhir Pekan			
29/09	Minggu	Libur Akhir Pekan			
30/09	Senin	Hari Kerja	10.00 - 14.00	1. Data and the Internet of Things 2. Fundamentals of Data Analysis	Understand the concepts of Big Data and Analytics, and the role of Big Data in IoT systems. Learn the basics of descriptive statistics, the practical aspects in acquiring data from a sensor and how to create visual representations of the data.
01/10	Selasa	Hari Kerja	10.00 - 14.00		
02/10	Rabu	Hari Kerja	10.00 - 14.00		
03/10	Kamis	Hari Kerja			
04/10	Jumat	Hari Kerja			
05/10	Sabtu	Libur Akhir Pekan			
06/10	Minggu	Libur Akhir Pekan			
07/10	Senin	Hari Kerja	10.00 - 14.00	3. Data Analysis	Explore data using visualization to extract information and create hypotheses.
08/10	Selasa	Hari Kerja	10.00 - 14.00		
09/10	Rabu	Hari Kerja	10.00 - 14.00		
10/10	Kamis	Hari Kerja			
11/10	Jumat	Hari Kerja			
12/10	Sabtu	Libur Akhir Pekan			
13/10	Minggu	Libur Akhir Pekan			
14/10	Senin	Hari Kerja	10.00 - 14.00	4. Advanced Data Analytics and Machine Learning	Learn about predictive analytics, the supervised and unsupervised approaches to machine learning and how to apply models to make predictions from the data.
15/10	Selasa	Hari Kerja	10.00 - 14.00		
16/10	Rabu	Hari Kerja	10.00 - 14.00		
17/10	Kamis	Hari Kerja			
18/10	Jumat	Hari Kerja			
19/10	Sabtu	Libur Akhir Pekan			
20/10	Minggu	Libur Akhir Pekan			
21/10	Senin	Hari Kerja	10.00 - 14.00	5. Storytelling with Data 6. Architecture for Big Data and Data Engineering	Learn how to transform analytics results into a clear and convincing narrative and visual communication. Learn the basic principles behind the most important scalable solutions for Big Data such as Apache Hadoop and the related ecosystem of technologies.
22/10	Selasa	Hari Kerja	10.00 - 14.00		
23/10	Rabu	Hari Raya Nyepi (Hari Libur Nasional)			
24/10	Kamis	Hari Kerja	10.00 - 14.00		
25/10	Jumat	Hari Kerja			
26/10	Sabtu	Libur Akhir Pekan			
27/10	Minggu	Libur Akhir Pekan			
28/10	Senin	Hari Kerja	10.00 - 14.00	1. The IoT Under Attack 2. IoT Systems and Architectures	Evaluate IoT security risks in an industry sector. Use industry-standard models to explain security requirements in IoT systems.
29/10	Selasa	Hari Kerja	10.00 - 14.00		
30/10	Rabu	Hari Kerja	10.00 - 14.00		
31/10	Kamis	Hari Kerja			
01/11	Jumat	Hari Kerja			
02/11	Sabtu	Libur Akhir Pekan			
03/11	Minggu	Libur Akhir Pekan			
04/11	Senin	Hari Kerja	10.00 - 14.00	3. IoT Device Layer Attack Surface	Perform threat modeling activities to evaluate physical device security vulnerabilities in IoT systems.
05/11	Selasa	Hari Kerja	10.00 - 14.00		
06/11	Rabu	Hari Kerja	10.00 - 14.00		
07/11	Kamis	Hari Kerja			
08/11	Jumat	Hari Kerja			
09/11	Sabtu	Libur Akhir Pekan			
10/11	Minggu	Hari Pahlawan (Hari Libur Nasional)			
11/11	Senin	Hari Kerja	10.00 - 14.00	4. IoT Communication Layer Attack Surface	Perform threat modeling activities to evaluate communication security vulnerabilities in IoT systems.
12/11	Selasa	Hari Kerja	10.00 - 14.00		
13/11	Rabu	Hari Kerja	10.00 - 14.00		
14/11	Kamis	Hari Kerja			
15/11	Jumat	Hari Kerja			
16/11	Sabtu	Libur Akhir Pekan			
17/11	Minggu	Libur Akhir Pekan			
18/11	Senin	Hari Kerja	10.00 - 14.00	5. IoT Application Layer Attack Surface 6. Vulnerability and Risk Assessment in an IoT System	Perform threat modeling activities to evaluate application security vulnerabilities in IoT systems. Use threat modeling and risk management frameworks to recommend threat mitigation measures.
19/11	Selasa	Hari Kerja	10.00 - 14.00		
20/11	Rabu	Hari Kerja	10.00 - 14.00		
21/11	Kamis	Hari Kerja			
22/11	Jumat	Hari Kerja			
23/11	Sabtu	Libur Akhir Pekan			
24/11	Minggu	Libur Akhir Pekan			
25/11	Senin	Hari Kerja	10.00 - 14.00	Extra Day	Q&A
26/11	Selasa	Hari Kerja	10.00 - 14.00		
27/11	Rabu	Hari Kerja	10.00 - 14.00		
28/11	Kamis	Hari Kerja			
29/11	Jumat	Hari Kerja			
30/11	Sabtu	Libur Akhir Pekan			

Kelas 3ISA1  
 Kelas 3ISA3  
 Kelas 3ISA2

kelas di selenggarakan start pada pukul 10.00 selesai pukul 14.00 +/- 15 menit.