



Program Pendidikan Profesional TEKNOLOGI INFORMASI
Peminatan: Software Engineering

Semester 1	
Modules	Credits
Introduction to Information Technology	3
Introduction to Information Technology Project	1
Algorithm and Programming	2
Algorithm and Programming Project	1
Relational Database Design	2
Implementing Database Design on MS SQL Server	3
Implementing Database Design on MS SQL Server Project	1
Tools and Technique for Analyzing Data	3
Tools and Technique for Analyzing Data Project	1
Operating System	2
Total Credits	19

Semester 2	
Modules	Credits
Object Oriented Programming	3
Object Oriented Programming Project	1
Java Programming	3
Java Programming Project	1
Introduction to Web Programming	3
Introduction to Web Programming Project	1
Web Application	3
Web Application Project	1
Leadership and Communication Skills	2
Algorithm and Data Structure	2
Total Credits	20



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 CENTER FOR COMPUTING AND INFORMATION TECHNOLOGY

Semester 3	
Modules	Credits
Developing Enterprises Information System using Framework	3
Developing Enterprises Information System using Framework Project	1
Automated Software Testing	3
Automated Software Testing Project	1
Mobile Computing	3
Mobile Computing Project	1
Collaborative Development using Repository System	2
Project Management using DevOps	2
Project Management using DevOps Project	1
Information Systems Architecture and Technology	2
Total Credits	19

Semester 4	
Modules	Credits
Human Computer Interaction	3
Human Computer Interaction Project	1
Web Programming for Mobile Devices	3
Web Programming for Mobile Devices Project	1
Cloud Computing	3
Cloud Computing Project	1
Software Engineering	3
Professional Ethics	2
Security Concept	2
Total Credits	19



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Program Pendidikan Profesional TEKNOLOGI INFORMASI
Peminatan: Web Development

Semester 1	
Modules	Credits
Introduction to Information Technology	3
Introduction to Information Technology Project	1
Algorithm and Programming	2
Algorithm and Programming Project	1
Relational Database Design	2
Implementing Database Design on MS SQL Server	3
Implementing Database Design on MS SQL Server Project	1
Tools and Technique for Analyzing Data	3
Tools and Technique for Analyzing Data Project	1
Operating System	2
Total Credits	19

Semester 2	
Modules	Credits
Object Oriented Programming	3
Object Oriented Programming Project	1
Java Programming	3
Java Programming Project	1
Introduction to Web Programming	3
Introduction to Web Programming Project	1
Web Application	3
Web Application Project	1
Leadership and Communication Skills	2
Algorithm and Data Structure	2
Total Credits	20



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Semester 3	
Modules	Credits
Web Programming for Mobile Devices	3
Web Programming for Mobile Devices Project	1
Collaborative Development using Repository System	2
Advanced Database	3
Administering Database	2
Administering Database Project	1
Developing Information System	4
Developing Information System Project	1
Information Systems Architecture and Technology	2
Total Credits	19

Semester 4	
Modules	Credits
Rapid Application Development using Visual C#	3
Rapid Application Development using Visual C# Project	1
Advance Web Programming using ASP.NET	3
Advance Web Programming using ASP.NET Project	1
Developing Enterprises Information System using Framework	3
Developing Enterprises Information System using Framework Project	1
Software Engineering	2
Professional Ethics	2
Security Concept	3
Total Credits	19



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Program Pendidikan Profesional TEKNOLOGI INFORMASI
Peminatan: Internet of Things (Internet-based System Automation)

Semester 1	
Modules	Credits
Introduction to Information Technology	3
Introduction to Information Technology Project	1
Algorithm and Programming	2
Algorithm and Programming Project	1
Relational Database Design	2
Implementing Database Design on MS SQL Server	3
Implementing Database Design on MS SQL Server Project	1
Tools and Technique for Analyzing Data	3
Tools and Technique for Analyzing Data Project	1
Operating System	2
Total Credits	19

Semester 2	
Modules	Credits
Object Oriented Programming	2
Object Oriented Programming Project	1
Backend Programming	2
Backend Programming Project	1
Computer Network	2
Administering Network Operating System	3
Computer Network Design Project	1
Linux Server Configuration	3
Linux Server Configuration Project	1
Electronic Circuit and Sensors	3
Electronic Circuit and Sensors Project	1
Algorithm and Data Structure	2
Total Credits	22



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Semester 3	
Modules	Credits
Introduction to IoT	1
Internet of Things Circuit	4
Big Data and Analytic	4
Embedded system	4
IoT Framework and Platforms	2
IoT Project I	3
Information Systems Architecture and Technology	2
Total Credits	20

Semester 4	
Modules	Credits
Programming in Java	3
Programming in Java Project	1
Mobile Application on Android Platform	3
Mobile Application on Android Platform Project	1
Integration System	4
Information System Security	3
Information System Security Project	1
Web Application	3
Web Application Project	1
Developing Enterprises Information System using Framework	3
Developing Enterprises Information System using Framework Project	1
Total Credits	24



Program Pendidikan Profesional TEKNOLOGI INFORMASI
Peminatan: Network Administrator Professional

Semester 1	
Modules	Credits
Introduction to Information Technology	3
Introduction to Information Technology Project	1
Algorithm and Programming	2
Algorithm and Programming Project	1
Relational Database Design	2
Implementing Database Design on MS SQL Server	3
Implementing Database Design on MS SQL Server Project	1
Tools and Technique for Analyzing Data	3
Tools and Technique for Analyzing Data Project	1
Operating System	2
Total Credits	19

Semester 2	
Modules	Credits
Installing and Configuring Windows Server	3
Installing and Configuring Windows Server Project	1
Administering Windows Server	3
Administering Windows Server Project	1
Configuring Advanced Windows Services	3
Configuring Advanced Windows Services Project	1
Microsoft SQL Server 2012: Database Administration	3
Microsoft SQL Server 2012: Database Administration Project	1
Java Programming	3
Java Programming Project	1
Algorithm and Data Structure	2
Total Credits	22



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Semester 3	
Modules	Credits
Information Systems Architecture and Technology	2
Computer Network	4
Implementing, Managing, and Securing Network Infrastructure	4
Information Technology Infrastructure	4
Enterprise Network Planning, Implementing and Monitoring	4
Network Infrastructure Project	3
Total Credits	21

Semester 4	
Modules	Credits
Administering Network Operating System	3
Administering Network Operating System Project	1
Information System Security	3
Information System Security Project	1
Linux Server Configuration	3
Linux Server Configuration Project	1
Network Monitoring and Analysis	3
Network Monitoring and Analysis Project	1
Kriptografi	2
Total Credits	18