C. Program Teknologi Informasi *Internet-based System Automation* **(TI ISA)**

Curriculum Contents

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

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