

Telecommunication Engineering Delivered In English Curriculum

1st Year	
1st Semester	Credit
Pancasila	2
Human Literacy	2
Introduction to Telecommunication Engineering	2
Physics 1	3
Calculus 1	3
Practicum Physics 1	1
Biology	3
Introduction to Engineering and Design	3
Harmony, Excellence, and Integrity	1
Total Credit	20
2nd Semester	Credit
Religious and Ethical Education	2
English	2
Algorithms and Programming	3
Physics 2	3
Calculus 2	3
Algorithms and Programming Practicum	1
Physics Practicum 2	1
Matrix and Vector Space	3
Total Credit	18

2nd Year	
3rd Semester	Credit
Telecommunication Engineering Practicum 1	1
Python Programming	2
Electrical Circuit B	3
Complex Variables	3
Differential Equations and Applications	3
Discrete Mathematics	3
Telecommunication Networks	3
Total Credit	18
4th Semester	Credit
Telecommunication Engineering Practicum 2	1
Digital Engineering	3
Electronics B	3
Probability and Statistics	3
Electromagnetics	3
Continuous Time Signal Processing	3
Data Communication Network	3
Total Credit	19

3rd Year	
5th Semester	Credit
Data Literacy	2
Telecommunication Engineering Practicum 3	1
Communication System 1	3
Microprocessor and IoT	3
Telecommunication Electromagnetics	3
Discrete Time Signal Processing	3
Queuing Systems	3
Object Based Programming	2
Total Credit	20
6th Semester	Credit
Telecommunication Engineering Practicum 4	1
RF Electronics	3
Optical Communication System	3
Communication System 2	3
Antennas and Propagation	3
Cryptography and Security Protocols	3
Entrepreneurship	2
Practical Work / KKN	2
Total Credit	20

4th Year	
7th Semester	Credit
Elective Courses 1	3
Final Project Proposal	2
Indonesian Language	2
Wireless Access Communication	3
Project Management	3
Elective Courses 2	3
Total Credit	16
8th Semester	Credit
Studium General	2
Citizenship	2
Final Project	4
Elective Courses 3	3
Elective Courses 4	3
Total Credit	14

***Elective Course list on next page**

Elective Courses	
Courses	Credit
New Generation Network	3
Software Defined Network	3
Network Engineering	3
Cyber Security	3
Basic Telecommunication Management and Regulation	3
Adaptive Network	3
Cloud Computing	3
AI and Big Data Analysis	3
Steganography and Watermarking	3
Mobile Application	3
Speech Signal Processing	3
Modulation and Channel Coding	3
Wireless Optical Communication	3
Broadband Optical Network	3
Satellite Communication System	3
Radio Engineering	3
Radar, Navigation and Remote Sensing	3
5G and Beyond	3
Modelling and Simulation	3
Coding and Compression	3