

KONSEP NOMENKLATUR

RUMPUN IPTEKS

UU PT no 12 tahun 2012

paragraf 2

RUMPUN ILMU PENGETAHUAN DAN TEKNOLOGI

Pasal 10

- 1) Rumpun ilmu pengetahuan dan Teknologi merupakan kumpulan sejumlah pohon, cabang, dan ranting Ilmu Pengetahuan yang disusun secara sistematis.
- 2) **Rumpun Ilmu Pengetahuan dan Teknologi** terdiri atas :
 - a. Rumpun ilmu **agama**
 - b. Rumpun ilmu **humaniora** (*Huminities*)
 - c. Rumpun ilmu **sosial** (*Social Sciences*)
 - d. Rumpun ilmu **alam** (*Natural Sciences*)
 - e. Rumpun ilmu **formal** (*Mathematics and Computing Sciences*)
 - f. Rumpun ilmu **terapan** (*Professions and Applied Sciences*)

1	HUMANITIES	
	101	Arts
	102	History
	103	Languages and linguistics
	104	Literature
	105	Philosophy
	106	Religion

2

SOCIAL SCIENCES

201

Anthropology

202

Archaeology

203

Area studies

204

Economics

205

Gender and sexuality studies

206

Geography

207

Political science

208

Psychology

209

Sociology

3	Natural Sciences	
	301	Chemistry
	302	Earth sciences
	303	Life sciences
	304	Physics
	305	Space sciences

4

Mathematics and Computing Sciences

401

Computer sciences

402

Logic

403

Mathematics

404

Statistics

405

Systems science

5	Professions and Applied sciences	
	501	Agriculture
	502	Architecture and design
	503	Business
	504	Divinity
	505	Education
	506	Engineering
	507	Environmental studies and Forestry
	508	Family and consumer science
	509	Health sciences
	510	Human physical performance and recreation*
	511	Journalism, mass media and communication
	512	Law
	513	Library and museum studies
	514	Military sciences
	515	Public affairs
	516	Social work
	517	Tourism
	518	Transportation
	519	Management

302	Earth sciences	
30201		Edaphology
30202		Environmental science
3020201		Environmental chemistry
30203		Gemology
30204		Geodesy
30205		Geography
30206		Geology
3020601		Oil and Gas Exploration
3020602		Nuclear Exploration
3020601		Cold Mathane Exploration
30207		Geomorphology
30208		Geophysics
30209		Glaciology
30210		Hydrogeology
30211		Hydrology
3021101		Water Industry
30212		Meteorology
3021201		climatology
30213		Mineralogy
30214		Oceanography
30215		Pedology
30216		Paleontology
3021601		Paleobiology
30217		Sedimentology
30218		Soil science
30219		Speleology
30220		Tectonics

502	Architecture and design	
50201		Architecture
50202		Urban planning (urban design)
50203		Interior design (interior architecture)
50204		Landscape architecture (landscape planning)
50205		Historic preservation
50206		Industrial design (product design)
5020601		Ergonomics
5020602		Furnishing
5020603		Game design
5020604		Toy and amusement design
50207		Fashion design
50208		Textile design
50209		Visual communication
5020901		Graphic design
5020902		Printing and Graphic Arts
5020903		Technical drawing
5020904		Type design
5020905		User interface design
5020906		Visual Arts, Craft and Design

506	Engineering		
50601	Aerospace engineering		
5060101		Aeroskills	
506010101			Aeroskills (Avionics)
506010102			Aeroskills (Mechanical)
506010103			Aeroskills (Structures)
5060102		Aviation	
50602	Architectural engineering		
50603	Bioengineering		
5060301		Biochemical engineering	
5060302		Bioenergy	
5060303		Biomechanical engineering	
5060304		Biomedical engineering	
5060305		Bioprocess engineering	
5060306		Clinical engineering	
5060307		Genetic engineering	
5060308		Human genetic engineering	
5060309		Metabolic engineering	
5060310		Molecular engineering	
5060311		Neural engineering	
5060312		Protein engineering	
5060313		Rehabilitation engineering	
5060314		Tissue engineering	
50604	Chemical engineering		
5060401		Gas Industry	
5060402		Micro process engineering	
5060403		Paper engineering	
506040301			Pulp and Paper Manufacturing Industry
5060404		Chemical, Hydrocarbons and Refining	

50605	Civil engineering
5060501	Building engineering
5060502	Climate engineering
5060503	Civionic engineering (civionics)
5060504	Construction engineering
506050401	Civil Construction Industry
506050402	Road and Bridge Construction
5060505	Construction, Plumbing and Services Integrated Framework
506050501	Urban Irrigation
506050502	Irrigation
5060506	Earthquake engineering
5060507	Earth systems engineering and management
5060508	Ecological engineering
5060509	Facilities engineering
5060510	Geomatics engineering
506051001	Remote sensing
5060511	Geotechnical engineering
5060512	Highway engineering
5060513	Hydraulic engineering
5060514	Landscape engineering (landscape architecture)
5060515	Land development engineering
5060516	Off-Site Construction
5060517	Pavement engineering
5060518	Plumbing and Services
5060519	Railway systems engineering
5060520	Resources and Infrastructure Industry
5060521	River engineering
5060522	Sanitary engineering
5060523	Sewage engineering
5060524	Structural civil engineering
5060525	Surveying
5060526	Traffic engineering
5060527	Transportation engineering (transport engineering)
5060528	Urban engineering (Municipal engineering)

50606		Computer engineering
50607		Electrical engineering
5060701		Electricity Supply Industry
506070101		Generation
506070102		Transmission And Distribution
5060702		Power System Engineering
5060703		Electrotechnology
506070301		Refrigeration and Air-Conditioning
50608		Telecommunications engineering
5060801		Broadcast engineering
5060802		Communications system engineering
5060803		Control engineering (control systems engineering)
5060804		Electronics and Communication Engineering
50609		Electronics engineering
5060901		Audio engineering
5060902		Microelectronics engineering
5060903		Semiconductor engineering
50610		Engineering physics
5061001		Acoustical engineering
5061002		Instrumentation engineering
5061003		Nanoengineering
5061004		Optical engineering

50611		Environmental engineering
5061101		Aquatic engineering
50612		Financial engineering
5061201		Computational finance (financial engineering)
5061202		Value engineering
5061203		Cost engineering
50613		Industrial engineering
5061301		Asset Maintenance
5061302		Behavioral engineering
5061303		Domain engineering
5061304		Engineering economics
5061305		Engineering management
5061306		Engineering psychology
5061307		Logistic engineering
5061308		Model-driven engineering
5061309		Performance engineering
5061310		Product Family Engineering
5061311		Quality engineering (quality assurance engineering)
5061312		Reliability engineering
5061313		Security engineering
5061314		Support engineering

50614		Materials engineering
5061401		Ceramic engineering
5061402		Crystal engineering
5061403		Glass engineering
5061404		Metallurgical engineering
506140401		Metal technology
5061405		Plastics engineering
5061406		Polymer engineering
50615		Mechanical engineering
5061501		Forensic engineering
5061502		Manufacturing engineering
506150201		Automotive Industry Manufacturing
5061503		Mechatronics
5061504		Reverse engineering
5061505		Safety engineering
506150501		Rescue Engineering
5061506		Sports engineering
5061507		Structural mechanical engineering
5061508		Surface engineering
5061509		Vacuum engineering
5061510		Vehicle engineering
506151001		Automotive engineering
5061511		Machinery
506151101		Industrial Machinery
506151102		Machine Tools
506151103		Machinery Maintenance

50616		Mining engineering
5061601		Coal
5061602		Drilling
5061603		Geophysical engineering
5061604		Manufactured Mineral Products
5061605		Metalliferous Mining
5061606		Mineral engineering
5061607		Petroleum engineering
5061608		Reservoir engineering
50617		Nuclear engineering
5061701		Nuclear medicine technologist
50618		Ocean engineering
5061801		Marine engineering
50619		Planetary engineering / Geoengineering
50620		Systems engineering
50621		Textile engineering

507	Environmental studies and Forestry		
50701		Conservation biology	
50702		Environmental management	
5070201			Coastal management
5070202			Forestry management
5070203			Land management
507020301			Conservation And Land Management
5070204			Natural resource management
507020401			Water resource management
5070205			Wildlife management
50703		Forest and Forest Products	
50704		Recreation ecology	
50705		Silviculture	
50706		Sustainable development	
50707		Toxicology	

514	Military sciences and Engineering		
51401		Military education and training	
51402		Military engineering	
5140201		Amphibious warfare	
5140202		Artillery	
5140203		Combat engineering	
5140204		Logistics	
51403		Military history	
51404		Military intelligence	
51405		Military law	
51406		Military medicine	
51407		Military Organization	
5140701		Campaigning	
5140702		Doctrine	
5140703		Game theory in military	
5140704		Leadership	
5140705		Military Strategy and Tactics	
51408	Naval science		
5140801		Naval engineering	
514080101		Ship Construction	
514080102		Ship Electrical System	
514080103		Ship Machinery	
5140802		Naval tactics	
5140803	Naval architecture		
5140804		Weapons systems	

401**COMPUTER SCIENCES**

40101		Algorithms
4010101		Distributed algorithms
4010102		Parallel algorithms
4010103		Randomized algorithms
40102		Algebraic (symbolic) computation
40103		Artificial intelligence
4010301		Cognitive science
401030101		Automated reasoning
401030102		Machine learning
401030103		Natural language processing (Computational linguistics)
401030104		Computer vision
4010302		Expert systems
4010303		Robotics
40104		Computational biology (bioinformatics)
40105		Computational chemistry
40106		Computational economics
40107		Computational finance
40108		Computational mathematics
40109		Computational neuroscience
40110		Computational number theory
40111		Computational physics
40112		Computational sociology
40113		Computer-aided engineering

40114		Computer architecture
4011401		VLSI design
40115		Computer communications (networks)
4011501		Cloud computing
4011502		Information theory in computer communications
4011503		Internet, World wide web
4011504		Ubiquitous computing
4011505		Wireless computing (Mobile computing)
40116		Computer graphics
4011601		Computational geometry
4011602		Image processing
4011603		Scientific visualization
40117		Computer and society
4011701		Community informatics
4011702		History of computer hardware
4011703		History of computer science
4011704		Humanistic informatics
40118		Computer security and reliability
4011801		Cryptography
4011802		Fault-tolerant computing
40119		Data structures
40120		Distributed computing
4012001		Grid computing
40121		Human-computer interaction
40122		Information science
4012201		Data management
4012202		Data mining
4012203		Database
401220301		Distributed database
401220302		Object database
401220303		Relational database
4012204		Information retrieval
4012205		Information management
4012206		Knowledge management
4012207		Multimedia, hypermedia

40123		Information systems (Business informatics)
4012301		Information technology
4012302		Management information systems
4012303		Health informatics
401230301		Artificial neural network
401230302		Support vector machine
40124		Operating systems
40125		Parallel computing
4012501		High-performance computing
40126		Programming languages
4012601		Programming paradigms
401260101		Object-oriented programming
401260102		Functional programming
401260103		Concurrent programming
4012602		Program semantics
4012603		Type theory
4012604		Compilers
40127		Quantum computing
40128		Software engineering
4012801		Cryptographic engineering
4012802		Information engineering
4012803		Knowledge engineering
4012804		Language engineering
4012805		Release engineering
4012806		Teletraffic engineering
4012807		Usability engineering
4012808		Web engineering
40129		Scientific computing (Computational science)
40130		The Digital Humanities (Humanities computing)
40131		Theory of computation
4013101		Automata theory (Formal languages)
4013102		Computability theory
4013103		Computational complexity theory
4013104		Concurrency theory

APTIKOM

1. **Computer Engineering**
2. **Computer Science**
3. **Software Engineering**
4. **Information System**
5. **Information Technology**

1. Computer Engineering

- | | |
|---|--------------------------|
| a | Teknik Komputer |
| b | Sistem Komputer |
| c | Rekayasa Perangkat Keras |
| d | Komputerisasi Digital |
| e | Ilmu komputer Digitas |
| f | Rekayasa Komputer |

4. Information System

- | | |
|---|----------------------------|
| a | Sistem Informasi |
| b | Manajemen Informatika |
| c | Sistem Informasi Manajemen |
| d | Manajemen Sistem Informasi |
| e | Manajemen Informasi |

3. Software Engineering

- | | |
|---|--------------------------|
| a | Rekayasa Perangkat Lunak |
| b | Rekayasa Software |
| c | Programming |
| d | Pengembangan Software |

2. Computer Science

- | | |
|---|----------------------|
| a | Teknik Informatika |
| b | Ilmu Kompter |
| c | Ilmu Komputasi |
| d | Informatika |
| e | Ilmu Informatika |
| f | Matematika Komputasi |

5. Information Technology

- | | |
|---|------------------------------------|
| a | Teknologi Informasi |
| b | Teknologi Informasi dan Komunikasi |
| c | Teknik Informasi |
| d | Telematika |
| e | Teknologi Informatika |

Contoh nomenklatur prodi bidang Komunikasi

6	1	61001	6	10	01		Sains (Ilmu) Komunikasi	Communication Science	S1	S.	I.K.
8	1	61001	6	10	01		Sains (Ilmu) Komunikasi	Communication Science	S2	M.	I.K.
9	1	61001	6	10	01		Sains (Ilmu) Komunikasi	Communication Science	S3	Dr.	I.K.
5	2	6100101	6	10	01	01	Periklanan	Advertising	D3	A.Md.	I.K.
6	1	6100103	6	10	01	03	Komunikasi Pembangunan	Development Communication	S1	S.	I.K.
8	1	6100103	6	10	01	03	Komunikasi Pembangunan	Development Communication	S2	M.	I.K.
9	1	6100103	6	10	01	03	Komunikasi Pembangunan	Development Communication	S3	Dr.	I.K.
5	2	6100107	6	10	01	07	Komunikasi Massa	Mass communication	D3	A.Md.	I.K.
8	1	6100107	6	10	01	07	Komunikasi Massa	Mass communication	S2	M.	I.K.
5	2	61002	6	10	02		Jurnalistik	Journalism	D3	A.Md.	I.K.
5	2	6100201	6	10	02	01	Penyiaran	Broadcast journalism	D3	A.Md.	I.K.
6	2	6100202	6	10	02	02	Jurnalistik Mode	Fashion Journalism	D4	S.Tr.	I.K.
5	2	6100205	6	10	02	05	Penerbitan	Print journalism	D3	A.Md.	I.K.
5	2	61003	6	10	03		Hubungan Masyarakat	Public Relations	D3	A.Md.	I.K.
6	1	61003	6	10	03		Hubungan Masyarakat	Public Relations	S1	S.	I.K.