kod	od_prograr	title
01	CCB01	Microbiology
02	CCB02	Biotechnology
03	CCB03	Molecular Biology
01	CHE01	Organic Synthesis
02	CHE01	Natural Product
03	CHE01	Macrocycles
04	CHE01	Liquid Crystals
05	CHE01	Trace Organic Analysis
06	CHE01	Pollutants
01	CHE02	Surface Chemistry & Catalysis
02	CHE02	Environmental Chemistry
03	CHE02	Electroplating/Electrolessplating
04	CHE02	Computational Chemistry
01	CHE03	Inorganic Polymer
03	CHE03	Inorganic Synthetic Chemistry
04	CHE03	Coordination Chemistry
01	CHE04	Material Chemistry and Advanced Materials
02	CHE04	Composite Material and Ceramic
03	CHE04	Polymer Chemistry
04	CHE04	Palm Oil Chemistry
05	CHE04	Corrosion Chemistry & Coatings
06	CHE04	Chemistry in Petroleum Industry
01	CHE05	Pollution Studies
02	CHE05	Biosensors
03	CHE05	Electroanalytical Methods
04	CHE05	Separation Chemistry
05	CHE05	Chemical Education
06	CHE05	Photocatalysis
07	CHE05	Conducting Polymers
08	CHE05	Environmental Electrochemistry
09	CHE05	Water Treatment
01	CIV01	Landfill Technology
02	CIV01	Composting
03	CIV01	Water and Wastewater Treatment
04	CIV01	Industrial Wastewater Treatment
05	CIV01	Solid Waste Management
06	CIV01	Environmental Impact Assessment (EM) & Environmental Management Plan (EMP)
07	CIV01	Air Quality Studies
08	CIV01	Sludge Management
09	CIV01	Noise Pollution Control & Management
10	CIV01	Water Quality Studies
11	CIV01	Geo-Environment
12	CIV01	Other Fields in Environmental Engineering
01	CIV02	Slope Stabilization (Soil/Rock)
02	CIV02	Ground Improvement
03	CIV02	Reinforced Soil

04	CIV02	Landslide Risk Management
05	CIV02	Rock Mechanics
06	CIV02	Blasting & Vibrations
07	CIV02	Foundation Engineering
08	CIV02	Probabilistic Methods In Geotechnical Engineering
09	CIV02	Land Reclamation & Rehabilitation
11	CIV02	Geotechnical Assessment
12	CIV02	Piling Vibrations
13	CIV02	Application Of Geosynthetics
14	CIV02	Geo-Spatial Analysis
15	CIV02	Soft Clays
16	CIV02	Collapsible Soil
17	CIV02	Risk Assessment In Geotechnical Engineering
18	CIV02	Geotechnical Assessment
19	CIV02	Other Fields In Geotechnical Engineering
01	CIV03	Water Supply
02	CIV03	Urban Storm Water Management
03	CIV03	Hydrological
04	CIV03	Flood Forecasting
05	CIV03	River Engineering
06	CIV03	Remote Sensing & GIS Application in Water Resources
07	CIV03	Integrated Water Resource Management
08	CIV03	Irrigation & Drainage
11	CIV03	Urban Hydrology
12	CIV03	Sediment Transport
13	CIV03	Modeling of Pump Station
14	CIV03	Hydraulics
15	CIV03	Fluid Mechanics
16	CIV03	Computational Fluid Dynamics
17	CIV03	Eco-hydrology
18	CIV03	Coastal Engineering
19	CIV03	Hydraulic Structures
20	CIV03	Other Fields in Water Resources Engineering
01	CIV04	Pavement Engineering
02	CIV04	Asphalt Technology
04	CIV04	Traffic Engineering
05	CIV04	Road Safety
06	CIV04	Intelligent Transport System
07	CIV04	Public Transport Studies
08	CIV04	Highway Capacity Studies
09	CIV04	Travel Behaviour Studies
10	CIV04	Sustainable Transport
11	CIV04	Other Fields in Highway, Traffic & Transportation Engineering
01	CIV05	Structural Dynamics
02	CIV05	Concrete Technology
03	CIV05	Construction Technology
11	CIV05	Masonry Engineering

13	CIV05	Concrete Repair Materials and Techniques
14	CIV05	Wind Engineering
15	CIV05	Earthquake Engineering
16	CIV05	Timber Engineering
17	CIV05	Tensioned Structures
18	CIV05	Shell and Spatial Structures
19	CIV05	Computational Mechanics and Advanced Structual Analysis
20	CIV05	Computational Mechanics
21	CIV05	Advanced Structural Analysis
22	CIV05	Steel Structures
23	CIV05	Water Retaining Structures
24	CIV05	Structural Health Monitoring
25	CIV05	Structural Retrofitting
26	CIV05	Other Fields in Structural Engineering
02	CIV06	Monitoring Systems
03	CIV06	Global Positioning System (GPS)
04	CIV06	Decision Support System (DSS)
06	CIV06	Geo-Information Sciences(GIS)
07	CIV06	Digital Mapping and Imaging
08	CIV06	Engineering Survey
09	CIV06	Spatial Statistics
12	CIV06	Cadastral Survey
13	CIV06	Sub Surface Detection and Assessment
14	CIV06	Other Fields in Geomatic Engineering
01	CIV07	Management
02	CIV07	Stress Management
03	CIV07	Emotional Intelligence
04	CIV07	Engineering Entrepreneurship
05	CIV07	Project Management
06	CIV07	Construction Management
07	CIV07	Other Fields in Engineering Management
01	COM11	Service Science and Innovation
02	COM11	Management of Information Systems (MIS)
03	COM11	Human Computer Interaction (HCI)
04	COM11	IT Operations and Management
05	COM11	Technopreneurship
01	COM12	Service Systems Engineering (SSE)
02	COM12	Software Analysis and Design Patterns
03	COM12	Software Productivity and Quality
04	COM12	Value-Based Software Engineering
05	COM12	Sustainable and Evolutionary Software Systems
01	COM13	Social Informatics
02	COM13	Computer Ethics
03	COM13	Collaborative Computing
04	COM13	Information Evaluation
05	COM13	Usability Engineering
01	COM14	Virtual Reality and Animation

02	COM14	Multimedia Retrieval, Processing and Anaysis
03	COM14	Distributed Multimedia and Multimedia Communication
04	COM14	E-Learning
05	COM14	Multimedia Tools and Applications
01	COM21	Intelligent System Techniques
02	COM21	Scheduling/Timetabling/Planning
03	COM21	Evolutionary Computing
04	COM21	Collective Intelligence
05	COM21	Brain Inspired Computing
01	COM22	Image Analysis
02	COM22	Semantic Image and Video Knowledge Extraction
03	COM22	Image Retrieval
04	COM22	Multimodal Integration
01	COM23	Data Visualization
02	COM23	Information Visualization
03	COM23	Knowledge Visualization
04	COM23	Computer Graphics
05	COM23	Visual Analytics
06	COM23	Virtual Environment
01	COM24	Natural Language Processing
02	COM24	Automated Translation
03	COM24	Speech Recognition
04	COM24	Speech Synthesis
05	COM24	Semantic Web Search
06	COM24	Text Summarization
01	COM25	Health Informatics
02	COM25	Knowledge Management and Engineering
03	COM25	Data Mining
01	COM31	Distributed Systems
02	COM31	Parallel Tools & Applications
03	COM31	Cluster and Multicore Computing
04	COM31	Grid Computing
05	COM31	Peer-to-Peer Computing
01	COM32	Embedded Systems
02	COM32	Wireless and Mobile Computing
03	COM32	Quality of Service
04	COM32	Network & Communication Protocols
05	COM32	Network Modelling
06	COM32	Wireless Sensor Networks
01	COM33	Network Security
02	COM33	Malware
03	COM33	Cryptology
04	COM33	Steganography
05	COM33	Data Privacy and Preservation
06	COM33	Security Management
07	COM33	Digital Forensics
01	COM34	Parallel Sequence Analysis Algorithms

02	COM34	Parallel Structure Prediction Algorithms
03	COM34	Concurrency Theory in Biology
04	COM34	Parallel Biological Data Mining
01	DEA01	Distance and Open Learning
02	DEA01	Self-Instructional Multi-Media Application
03	DEA01	Support System in Distance Education
04	DEA01	Distance Education Technology
05	DEA01	E- Learning Portal
06	DEA01	Distance Education Administration
07	DEA01	Adults Learning
28	dea02	3D in Spatial Studies
01	DEA02	Environmental Studies
02	DEA02	Geographical Education
03	DEA02	Economic Development
04	DEA02	Transport and Traffic Studies
05	DEA02	Urban and Regional Studies
06	DEA02	Poverty Studies
07	DEA02	Tourism
08	DEA02	Hydrometeorology
09	DEA02	Slope Stability
10	DEA02	Fluvial Geomorphology
12	DEA02	Remote Sensing
13	DEA02	ICT in Geography
14	DEA02	Land Use Planning
15	DEA02	Urban Growth
16	DEA02	Human, Social and Cultural Geography
17	DEA02	Rural Transformation and Development
18	DEA02	Sustainable Development
19	DEA02	Place and Areal Studies
20	DEA02	Pollution Studies
21	DEA02	Landslide Studies
23	DEA02	Hydrology
24	DEA02	Water Resources and Management
25	DEA02	Climate Change
26	DEA02	Agricultural Studies
27	DEA02	Industrial and Globalization
01	DEA03	Classical Malay Literature
02	DEA03	Modern Malay Literature
03	DEA03	Comparative Literature
01	DEA04	Historical Philosophy
02	DEA04	Malaysian History
03	DEA04	South East Asian History
04	DEA04	East Asian History
05	DEA04	Western History
06	DEA04	History
01	DEA05	Political Anthropology
02	DEA05	South East Asian Ethnography

03	DEA05	Ethnicity & Social Inequality
04	DEA05	Theory & Social Research Methods
05	DEA05	Urbanization & Social Change
06	DEA05	Antropology/Sociology
01	DEA06	International Economic
02	DEA06	Islamic Economic
03	DEA06	Microekonomics
05	DEA06	Econometrics
08	DEA06	Microeconomics and Monetory Economics
09	DEA06	Economics of Education
10	DEA06	Agricultural Economics
11	DEA06	Industrial Organization
12	DEA06	Public Finance, Public Economics and Public Choice Economics
13	DEA06	Health Economics
14	DEA06	Labour Economics
01	DEA07	Political Philosophy
02	DEA07	International Relation
03	DEA07	Public Administration
04	DEA07	Comparative Politics
05	DEA07	Political Economic
06	DEA07	Islamic Political Economy
08	DEA07	Human Rights
09	DEA07	Conflict Studies in Plural Societies
10	DEA07	Conflict Studies in International Relations
11	DEA07	Policy Transfer
12	DEA07	Women and Politics
13	DEA07	Politics of Environment
14	DEA07	Religion and Politics
15	DEA07	Civil Society
16	DEA07	Constitution
17	DEA07	Political Development
18	DEA07	Public Policy
19	DEA07	e-Government
01	DEA08	Human Resource Management
02	DEA08	Work Values
03	DEA08	Strategic Management
04	DEA08	Organizational and Business Management
05	DEA08	Operational Management
06	DEA08	Consumer Behaviour
07	DEA08	Industrial Relations
08	DEA08	Operational Management
09	DEA08	Business Law
10	DEA08	Finance
11	DEA08	Investment
12	DEA08	Performance Measurement
13	DEA08	Government Linked Companies (GLC)
14	DEA08	International Business

15	DEA08	Corporate Governance
16	DEA08	Behavioral Finance
17	DEA08	Accounting
18	DEA08	Virtual Organisation/Society
19	DEA08	Organisational Behaviour
20	DEA08	Learning Organisation
21	DEA08	Management of Current Issues
22	DEA08	Quality of Management
23	DEA08	Micro Finance
24	DEA08	Technology & Innovation Management
01	DEA09	Teaching English as a Second Languages
02	DEA09	Malay Language
09	DEA09	Distance Education
01	DEA10	Biology Education
02	DEA10	Physics Education
03	DEA10	Mathematics Education
01	DEA11	Psychometric and Education Evaluation
02	DEA11	Research Methodology
01	DEA12	Multimedia Education and Information Technology
02	DEA12	Laboratory Virtual Learning
03	DEA12	Portal Learning
04	DEA12	m-Learning
05	DEA12	e-Learning
01	DEA13	Instructional Strategy
02	DEA13	Instructional Innovation
03	DEA13	Human Computer Interface/Usability
04	DEA13	Instructional Systems Development
05	DEA13	Visual Communication
01	DEA14	Renewable Energy and Energy Efficiency Education
02	DEA14	Environmental Education
03	DEA14	Environmental Teaching Method
01	DEA15	Geography Education
02	DEA15	Geography Teaching Method
03	DEA15	Geography and Environmental Education
04	DEA15	GIS in Geography Education
05	DEA15	ICT in Geography Education
01	DEA16	Teaching and Learning of English
02	DEA16	Adult and Distance Education
03	DEA16	Education Psychology
04	DEA16	Web-based English Teaching and Learning
05	DEA16	Pragmatics
06	DEA16	Literature in the TESOL classroom
01	DEA17	Islamic Civilization
02	DEA17	Figures of Islamic Thought
03	DEA17	Islamic Science
04	DEA17	Islamic Philosophy
05	DEA17	Comparative Religion

06	DEA17	Internalization of Islam Values
07	DEA17	Islamic History
08	DEA17	Epistemology
01	DES01	Algalogy
02	DES01	Molecular Biology
03	DES01	Botany
04	DES01	Ecology
05	DES01	Animal Ecology
06	DES01	Plant Physiology
07	DES01	Genetics
08	DES01	Tissue Culture
09	DES01	Vertebrate Zoology
10	DES01	Environmental Biology
11	DES01	Biology
12	DES01	Application of Data Mining
13	DES01	Aquatic Biology
14	DES01	Biodiversity
15	DES01	Bioinformatics
16	DES01	Biomass Energy
17	DES01	Biotechnology
18	DES01	Eco-informatics
19	DES01	Ecological Processes
20	DES01	Entomology
21	DES01	Ethnobotany
22	DES01	Ethnozoology
23	DES01	Microbiology
24	DES01	Supercritical Fluid Technology
25	DES01	Wildlife Biology
01	DES02	Physics Semiconductor
02	DES02	Computational Solid State Physics
03	DES02	Radiation Physics
04	DES02	Solid State Physics
05	DES02	Renewable Energy Studies
06	DES02	Amorphous Semiconductor
07	DES02	Materials Science
08	DES02	Medical Physics
09	DES02	Physics
22	DES02	Soil Erosion
01	DES03	Analytical Chemistry
02	DES03	Physical Chemistry
03	DES03	Coordination Chemistry
04	DES03	Organic Chemistry
05	DES03	Organometallic Chemistry
06	DES03	Inorganic Chemistry
01	DES04	Pure Mathematics
02	DES04	Applied Mathematics
03	DES04	Mathematics Modelling

04	DES04	Computer Aided Geometrical Design
05	DES04	Linear Equation System
06	DES04	Statistics
07	DES04	Operations Research
08	DES04	Mathematics
01	DES05	Occupational Safety and Health
01	DES06	Environmental Science
09	DES09	Physics
01	DRU01	Tropical Disease and Anti-infectives
02	DRU01	Metabolism
04	DRU01	Drug Evaluation
05	DRU01	Bioquivalence
06	DRU01	Pharmacokinetics
07	DRU01	Protein Binding
08	DRU01	Brain Study
09	DRU01	Clinical Trials
10	DRU01	Drug Interaction
01	DRU02	Extraction Technology
02	DRU02	Analytical Method Development for Drugs in Body Fluids
03	DRU02	Analytical Method Development for Illicit Drugs
04	DRU02	Analytical Method Development for Pharmaceutical Compound
05	DRU02	Instrumentation Methods
06	DRU02	Chemical and Physical Methods
01	DRU04	Epidemiology
02	DRU04	Prevention
03	DRU04	Treatment and Rehabilitation
04	DRU04	Programme Evaluation
05	DRU04	Social, Economic and Health Impact
06	DRU04	Drug Policy Studies
01	DRU05	Social and Behavioural Aspects of Diseases
02	DRU05	Health Education & Promotion
03	DRU05	Evaluation of Health Interventions
01	DRU06	Molecular and Biochemical Parasitology
02	DRU06	Medical Enzymology
03	DRU06	Pharmacogenetic and Pharmacogenomics
01	DRU07	Computer-aided Drug Design
02	DRU07	Synthesis, Isolation, Characterization and Structural Elucidation
03	DRU07	Lead Compound Optimization
04	DRU07	In vitro and in vivo screening
05	DRU07	Toxicology

1