

**MASTER PROGRAM**  
**in**  
**DEVELOPMENT STUDIES**  
**INSTITUT TEKNOLOGI BANDUNG**

The gap of our times is not so much...  
that between science and morality, as that between the soaring technological imagination and  
the inert institutional imagination.  
(Paul Streeten)

**Development Studies at ITB**

Established in 1993, the Graduate Program in Development Studies at ITB has consistently developed and disseminated knowledge, which is multi-discipline and to increase its research capacity to understand and seek solutions to resolve development issues for developing countries, specifically Indonesia as an archipelago nation in terms of national, regional and international perspectives.

The Program provides the space for the development of knowledge system based on research findings conducted since 1970 at ITB by research centers in development technology, environmental studies, energy, rural development, tourism as well as coastal and marine development.

The Development Studies Program responds to social changes as well as development paradigm for developing countries with emphasis on the development of knowledge-based society, good governance, sustainable economic growth, biosphere conservation as well as issues relevant to social vulnerability in terms of human rights, local economy, food and health security, disaster and security risks.

Development is conceptualized as a process of societal change, which is consciously chosen, designed and implemented based on value system, aspiration and goals agreed by the society and manifested through the creation of new systems and changing existing systems. Such development in essence is a technological action guided by knowledge, which is systematic, comprehensive and verifiable.

Every development effort for Indonesia has to be put within the context of '*kenusantaraan*'; Indonesia as an archipelago nation with distinct characteristics quite unlike any other country.

**Study Scope and Concentration**

Based on the above development framework and observation of similar field of studies in other countries, the Master Program in Development Studies at ITB offers concentrations in the following inter-related development sectors and systems:

**Sector Concentration**

- Energy and Mineral Resources
- Coastal and Marine Development
- Tourism
- Environment and Human Settlements
- Agriculture and Food
- Information and Communication
- Development Consultancy
- Technology and Industry

Students can choose one of the above sectors and to study it within one of the following knowledge systems.

- As of the 2005 academic year, students can choose to specialize in **Securities Studies**; a collaboration between the Development Studies Program and Cranfield University, UK.

### **Innovation Studies**

Networking of public-private institutions, national innovation policy and innovation diffusion pattern; Inter-relations between good governance and innovation diffusion; Regional innovation networking; Inter-relations among cultural change, societal learning and cultural based innovation.

### **Governance Studies**

Inter-relations among public administration, market relations, privatization and public service; Governance and regional autonomy; Governance and technology policy; Inter-relations among cultural change, societal learning and good governance.

### **Socio-Cultural and Humanities Studies**

Inter-relations among science/technology and human/social values; Impact of technological diffusion on the quality of social/human life; Influence of culture and social relations on technological development and functions.

#### **Security and Disaster Management Studies**

Interaction between the society and the government in guaranteeing security in terms of food, health and safety for sustainable development; Interaction between society and the government in anticipating and responding to natural disasters in lieu of the geo-oceanographic position of Indonesia that lies within a disaster prone region.

Given the matrix of sector and system studies, the Program emphasizes inter-discipline knowledge development, the distinct characteristic of the Master Program in Development Studies at ITB.

### **Learning System**

Through in class discussion of actual and contemporary development issues, dialog with development experts and thesis supervision, students are expected to obtain conceptual knowledge and analytical capability related to the following:

- Theoretical concepts and descriptive models on development and societal change.
- Techniques in relevant economic, policy, legal and socio-cultural analysis.
- Research methodologies, which focus on policy process and societal change.

The learning system emphasizes critical dialog and constructive thoughts that respond to actual issues from observation in the field, screening of relevant documentary films to stimulate critical exchanges among students, guest lectures from the central and local government and direct discussion with international experts via email or in-class visits.

To ensure quality graduates, the Program has a monitoring and evaluation system consisting of an academic committee, pre-thesis forum, thesis supervision and seminar.

## **Program Participants**

Participants are mid-level career professionals from the central and regional government agencies, military personnel, the private sector (such as banks, industry, consultant, petroleum companies among others) and NGOs, university lecturers and others. Participants may come from various educational backgrounds from the hard sciences (basic sciences and engineering), and the soft sciences (social sciences and the humanities). Such a varied educational background provides for a dynamic and interesting perspective among participants.

## **Qualifications**

- An S1 graduate (bachelor degree) from an accredited state or private university.
- A minimum GPA of 2.75
- A minimum TPA (local GRE) of 500
- Minimum TOEFL of 400 for application to ITB but to graduate with a Master degree from ITB a minimum TOEFL of 475 is required.
- CV
- If necessary, a candidate may be called for interview at the ITB campus in Bandung or via telephone interview.

## **Period of Study**

- 18 months consisting of 3 semesters beginning August of any given year.

## **Educational Facilities**

- **Library:** In-house library of 3000 books, journals, magazines, thesis, research reports and other relevant documents related to development studies.
- **Studio:** The studio creates and simulates model for system dynamics, CGE, econometric and statistical tools for policy analysis; and supports 3 labs: System Dynamics; Science, Technology & Society; and CGE. The studio is equipped with current audio-visual instruments that support field research and multi media presentation.
- **Computer lab:** A server with 20 units of PCs, 24 hours free internet access, 1 printer, 1 scanner, 2 notebooks, 2 LCDs, digital camera, handy cam and other relevant audio-visual equipment available to students.

## **Curriculum**

Students in the **regular Development Studies Program**, are required to take a minimum of 36 credit hours for a Master program

### **Semester I** (2 credit hours each)

- Introduction to Development Studies
- Science, Technology, Society and Development
- Community Based Development
- Microeconomics
- Law and Development
- Elective

### **Semester II** (2 credit hours each)

- Development Planning and Implementation
- Natural Resource and Environmental Management
- Macroeconomics
- Policy Analysis
- Modeling
- Elective

### **Semester III**

- Electives (3 choices, each 2 credit hours)

- Thesis (6 credit hours)
- OR
- Electives (5 choices, each 2 credit hours)
  - Thesis (2 credit hours)

**Elective courses**

- Modernization and Social Change
- Research and Communication Methods
- Qualitative Methodology
- Energy Economics
- Engineering Economics
- Coastal and Marine Development Economics
- Institution and Development
- Tourism Development Policy
- Tourism Theory, Dimension and System
- Tourism Research
- Tourism Planning Process
- Tourism Destination Management
- Tourism Satellite Account
- Coastal Region and Marine Development System
- Remote Sensing for Regional Typology Mapping
- Ecology and Ecosystem Management of Coastal and Marine Region
- Integrated Management of Coastal and Marine Region
- Watershed and Water Resource Management
- Disaster Mitigation
- Urban and Environmental Management
- Social Construction of Technology: Theory and Practice
- System Dynamics
- Engineering Science (compulsory for those with soft sciences background)
- Innovation and Entrepreneurship
- Independent Study

Students opting for **Special Major** in **Securities Studies** are required to take the following curriculum:

**Semester I** (3 credit hours each)

- Science, Art and Technology of War
- Management Science
- Strategic Environment and Contemporary Military
- Principles of Defence Management

**Semester II** (3 credit hours each)

- Good Governance and the Security Sector]
- Security in Asia Pacific
- Defence Economy and Finance
- Human Resource Management

**Semester III** (3 credit hours each except thesis 6 credit hours)

- Baseline Research
- Defence Acquisition and Logistics
- Special Topics
- Final Project/Thesis

#### Elective Courses

- Law and International Organization
- Risk Management
- Strategic and Defence Management
- Disaster Management
- Evaluation of Strategic Thoughts
- Critical Study on Security Issues
- Public Policy

# **Short Syllabus of Development Studies (240) Curriculum**

## **SP6020, Engineering Economics (2 SKS)**

### **Short Syllabus**

Issues in engineering economics, indicators, determination of alternative choices, tax analysis, project funding and scheduling, uncertainty and decision making, linear programming, link between engineering economics and policy analysis.

### **Related Courses**

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### **Bibliography**

1. De Garmo, E. P., et al., Engineering Economy, NY: McMillan Pub. Co, 1979
2. Taha, H. A., Operations Research: An Introduction, NY: McMillan, 1980
3. Partowidagdo, W., Ekonomi Teknik, Bahan Kursus Loka Data Mas & International Training Development, Jakarta, 1996

## **SP6021, Engineering Science (2 SKS)**

### **Short Syllabus**

Structural issues in engineering science and basics of engineering practice, thinking pattern and approaches to engineering, basic laws in mechanics, chemical conversion, thermodynamics, heat transfer and mass, electromagnetic and its uses.

### **Related Courses**

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### **Bibliography**

1. Wright, P. H., Introduction to Engineering, NY: John Wiley, 1994
2. Peters, M., Elementary Chemical Engineering, Singapore: McGraw Hill, 1994

## **SP6022, Construction of Social Technology: Theory and Praxis (2 SKS)**

### **Short Syllabus**

Introduction to theory on social determination, theories on technology determinism and SCOT, theory of SCOT in case studies on technological development in the military, agriculture, electricity, telecommunications, computers and others, methods for Constructive Technology Assessment based on SCOT to influence innovation process and technology diffusion in a society.

### **Related Courses**

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### **Bibliography**

1. Schot, J., Rip, A., The Past Future of Constructive Technology Assessment, Technology Policy and Forecasting Change, 1996
2. Bijker, W., et. al., The Social Construction of Technological Systems: New Directories in the Sociology and History of T, Cambridge: MIT Press, 1994
3. Rip, A., Societal Construction of Research and Technology, Technikpolitik angesichts der Umwelt-katastrophe, Heidelberg: Physica-Verlag, 1990

### **SP60S0, Seminar (2 SKS)**

#### **Short Syllabus**

Preparation for thesis research and presentation on topics chosen by the students.

#### **Related Courses**

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#### **Bibliography**

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### **SP6100, Introduction to Development Studies (2 SKS)**

#### **Short Syllabus**

Introduction to development studies, globalization of social livelihood, modernization theory, underdevelopment, world system theory, urbanization and development, transnational companies, NGOs and development, critique on industrialization, future thinking and science and technology.

#### **Related Courses**

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#### **Bibliography**

1. Corbridge, S., Development Studies: A Reader, London: Edward Arnold, 1995
2. Streeten, P. P., Thinking About Development, Cambridge University Press , 1997
3. Faqih, M., Sesat Pikir Teori Pembangunan dan Globalisasi, Yogyakarta: Insiste Press dan Pustaka Pelajar,

### **SP6101, Science, Technology, Society and Development (2 SKS)**

#### **Short Syllabus**

Fundamentals and linkages among the sciences, technology, culture, industry, production system, economic system, environment, society and development; factor identification that influences the development of S & T in Indonesia, analysis of S & T system in Indonesia and recommendations on strengthening S & T in Indonesia.

#### **Related Courses**

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### **Bibliography**

1. Sasmojo, S., dkk., (editor), Menerawang Masa Depan Ilmu Pengetahuan, Teknologi & Seni – Dalam Perkembangan Budaya Masyarakat Ba, Penerbit ITB, 1995
2. Sasmojo, S., Sains, Teknologi, Masyarakat dan Pembangunan, Naskah Kuliah di Program Pascasarjana Studi Pembanguna, ITB, 1991
3. Saeed, K, Development Planning and Policy Design, Brookfield: USA, 1994

## **SP6102, Community Based Development (2 SKS)**

### **Short Syllabus**

Development paradigm, concepts on community empowerment, development approaches, evaluation method, participative research, indicators for development, performance, and institutional thoughts and strategy on community empowerment.

### **Related Courses**

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### **Bibliography**

1. Cernea, M. M., Putting People First, Washington DC: USA, World Bank, 1998
2. Korten, D., Klauss, R. C., People Centred Development, West Hartford: Connecticut, Kumarian Press , 1984
3. Schumacher, E. F., Small is Beautiful: Economics as if People Mattered, New York, Harper and Row, 1975

## **SP6103, Microeconomics (2 SKS)**

### **Short Syllabus**

Issues in economic and price systems, consumer behavior, producer, market models, perfect and imperfect competition in the market, output –input, imperfect market mechanisms or market failure, general equilibrium analysis, imperfect information, externalities and public good.

### **Related Courses**

### **Bibliography**

1. Pindyck, R. S., Rubinfeld, D., Microeconomics, NY: Macmilan, 1989
2. Silberberg, E., The Structur of Economics A Mathematical Analysis, McGraw Hill, 1990
3. Nicholson, W, Microeconomic Analysis: Basic Principles and Extension, Illinois: Dryden Press, 1995

## **SP6130, Analysis for Policy Making and Energy Planning I (2 SKS)**

### **Short Syllabus**

- Not offered

### **Related Courses**

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### **Bibliography**

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## **SP6140, Tourism Theory, Dimension and System (2 SKS)**

### **Short Syllabus**

Economic dimension in the tourism sector, social dimension, politics, global tourism issues, national and policy issues, inter-sectoral links and changes in the face of Indonesian tourism.

### **Related Courses**

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### **Bibliography**

1. Puslitbang Parpostel, Sistem Kepariwisata Nasional, Puslitbang Parpostel
2. Fridgen, J. D, Dimensions of Tourism, Education Institute AH & MA

## **SP6150, Remote Sensing for Regional Potential Typology Mapping (2 SKS)**

### **Short Syllabus**

- Not offered

### **Related Courses**

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### **Bibliography**

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## **SP6151, Coastal and Marine Ecology and Ecosystem Management (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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## **Bibliography**

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## **SP6152, Integrated Coastal and Marine Region Development System (2 SKS)**

### **Short Syllabus**

Synthesis, analysis and evaluation of issues related to coastal and marine region development system.

### **Related Courses**

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## **Bibliography**

1. Bondungen B.v, RK Turners (ed), Science and Integrated Coastal Management, Dahlem Workshop Report, 1985
2. Sulasdi WN, Indikator –indikator Pembangunan Wilayah Pesisir dan Laut (unpublished lecture materials), 2001.

## **SP6180, Communication and Research Methodology (2 SKS)**

### **Short Syllabus**

Positivism and post positivism, conceptualization, operationalization, data collection I & II, research design type, statistical analysis, report writing, professional communication I & II.

### **Related Courses**

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## **Bibliography**

1. Babbie, E. R., The Practice of Social Research, California: Wadsworth Publishing Co, 1979
2. Bovee, C. L., Business Communications Today, NY - McGraw Hill Inc, 1992
3. Miller, D. C., Handbook of Research Design and Social Measurement, NY: Longman, 1977

## **SP6190, Modernization and Change (2 SKS)**

### **Short Syllabus**

Modernization as a social phenomenon, developing countries, pre-modern and developing society, social and cultural modernization, modernization in politics and governmental, industry, human resources, urbanization/urbanism, rural, social planning and economics.

### **Related Courses**

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### **Bibliography**

1. Abraham, F. M, Modernisasi di Dunia Ketiga, Suatu Teori Umum Pembangunan, Tiara Wacana, Yogya , 1991
2. School, J. W., Modernisasi, Pengantar Sosiologi Pembangunan Negara-negara Sedang Berkembang, Gramedia, Jakarta, 1984

## **SP6200, Development Planning and Implementation (2 SKS)**

### **Short Syllabus**

Issues and system approach to development planning, total system intervention, planning based models, development decentralization and regional development, community participation, role of public and private sectors in development, economic and development planning.

### **Related Courses**

1. SP6100 Introduction to Development Studies, Pre requisite.

### **Bibliography**

1. Osborne, D., Gaebler, T, Reinventing Government: How the Entrepreneurial Spirit is Transforming the Public Sector, Reading,
2. Korten, D. C., The Post Corporate World, Alken Company, Singapore
3. Osborne, D., Plastrik, P., Banishing Bureaucracy: The Five Strategies for Reinventing Government, Reading, Massachusetts:, Addison-Wesley Publishing Co.

## **SP6201, Law and Development (2 SKS)**

### **Short Syllabus**

Introduction to legal science, legal system and hierarchy, law and legal system in Indonesia, commercial law, contract, intellectual rights, technology transfer, environment, spatial plan, human rights, enforcement system and legal development.

### **Related Courses**

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### **Bibliography**

1. UNIDO, Guidelines for Evaluation of Transfer of Technology Agreements, UN: New York, 1979
2. Findley, R. W ., Farber, D. A., Environmental Law Case and Materials, St Paul: USA, West Publishing Co, 1988
3. Kantaatmadja, M. K., Hukum Udara dan Tata Ruang, Bandung: Mandar Maju, 1985

## **SP6202, Natural Resource and Environmental Management (2 SKS)**

### **Short Syllabus**

Economic growth, limited resources and environmental degradation, un-renewable resources, policy efficiency, market economics and natural resource institution, sustainable development policy.

### **Related Courses**

1. SP6100 Introduction to Development Studies, Pre-requisite.

### **Bibliography**

1. Berger, J., (ed.), Environmental Restoration, Island Press, Washington DC
2. Tientenberg T, Environmental and Resource Economics, Boston: Scott Foresman and Co., 1988
3. Park, CC, Ecology and Environmental Management, London: Butterworth

## **SP6203, Macroeconomics (2 SKS)**

### **Short Syllabus**

Macroeconomics in the private sector, political decision in economics, macroeconomic indicators, aggregate demand and supply, investment, consumption, fiscal policy, monetary system and policy, money and commodity markets, IS-LM model, inflation and unemployment, and the international sector.

### **Related Courses**

1. SP6103 Microeconomics, Pre-requisite.

### **Bibliography**

1. Schultze, C. L, Memos to the President, Washington DC: Brookings Institution
2. Clark, J. R., Thies, C. F., Wilson, J. H., Barr, S, Macroeconomics for Managers, Simon Schuster, Boston , 1990
3. Dornbush, R., Macroeconomics, NY: McGraw Hill, 1994

## **SP6210, Infrastructure Planning (2 SKS)**

### **Short Syllabus**

Characteristics and economics of infrastructure, supply and demand in infrastructure development, costing, regulation vs. competition, privatization, tariff, risk management, collaboration between government and private sector, case studies on toll road, water supply and other urban infrastructure.

### **Related Courses**

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**Bibliography**

1. World Bank, Infrastructures, Public Policy for the Private Sector, World Bank , 1996
2. Estache, A., (ed)., Decentralizing Infrastructure, Advantages and Limitations, World Bank Discussion Papers, No. 290, 1995
3. Fox, W. F., Strategic Options for Urban Infrastructure Management, Urban Management Program, No. 17, 1994

**SP6211, Urban and Environmental Planning (2 SKS)****Short Syllabus**

Urban management, infrastructure capacity and good governance in environmental context.

**Related Courses**

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**Bibliography**

1. Friedman, J., The Common Good: Assessing the Performance of Cities, in : Friedman, J., (ed.), Urban and Regional, Vancouver: UBC Press, pp 1-16 1998
2. Campbell, T., Environmental Dilemmas and the Urban Poor, in : Leonard, L. J., (ed.), Environment and the Poor, New Brunswick: Transaction Books, pp 165-87, 1989

**SP6220, Technology Policy and National Innovation System (2 SKS)****Short Syllabus**

Technology transformation process and mechanism from ideas to implementation. Technology policy, market mechanism, investment and social and technology environment impact. International dimension which includes global market competition, technology transfer in the Asia Pacific through multinational corporations and global alliances.

**Related Courses**

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**Bibliography**

1. Rosenberg, N., Inside the Black Box: Technology and Economics, Cambridge: Cambridge University Press
2. Stoneman, P., Economic Analysis of Technology Policy, Brookfield: Avery
3. Hilpert, U., (ed.), State Policies and Techno-Industrial Innovation, London: Routledge

## **SP6221, Innovation and Entrepreneurship (2 SKS)**

### **Short Syllabus**

Social innovation, needs, history, theory and internationalization, S & T in social innovation, catalyst for creativity, entrepreneurship management and strategy.

### **Related Courses**

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### **Bibliography**

1. Drucker, P. F, Innovation and Entrepreneurship: Practice and Principles, NY: Harper Row , 1985
2. Osborne, D., Gaebler, T, Reinventing Government: How the Entrepreneurial Spirit is Transforming the Public Sector, Reading, 1992
3. Osborne, D., Plastrik, P., Banishing Bureaucracy: The Five Strategies for Reinventing Government, Reading, Massachusetts:, Addison-Wesley Publishing Co

## **SP6222, Management Information System (2 SKS)**

### **Short Syllabus**

Major issues, practical tools and techniques in developing simple but practical information systems. Role of information systems within organizations and the capabilities to develop and manage non-complex management information systems applications.

### **Related Courses**

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### **Bibliography**

1. McLeod, R., Jr., Shell, G., Management Information Systems, 7th ed., Prentice Hall
2. Laudon, K. C., Laudon, J. P., (1995), Management Information Systems: New Approaches to Organization and Technology, 6th ed., Prentice-Hall

## **SP6230, Analysis for Policy Making and Energy Planning II (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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**SP6240, Tourism Research (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

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**Bibliography**

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**SP6250, Economics for Coastal and Marine Region (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

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**Bibliography**

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**SP6251, Coastal Physics Process (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

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**Bibliography**

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**SP6252, Coastal and Marine Region Integrated Management (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

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**Bibliography**

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## **SP6280, Qualitative Method (2 SKS)**

### **Short Syllabus**

Introduction to differences in qualitative and quantitative methods uses of theory, unobtrusive measure, coding, ethnography, data validity, and error and value system

### **Related Courses**

1. SP6180 Communication and Research Methodology, Co-requisite.

### **Bibliography**

1. Bailey, C., et. al, Evaluating Qualitative Research: Dealing with the Tension between Science and Creativity, 1999

## **SP6290, Politic and Development (2 SKS)**

### **Short Syllabus**

Definition of development and development thought evolution, development theory as a myth to modernization theory, critical theory, dependency and underdevelopment, market demand, national security and community based development issues in rural development, industrialization and urbanization, international aid and trade, new international economic order, NICE, AFTA and AFEC, MNC and Southeast Asia, and economic liberalism.

### **Related Courses**

1. SP6102 Community Based Development, Pre-requisite.

### **Bibliography**

1. Pinkney R, Democracy in the Third World: Issues in The Third World Politics, Boulder: Lynne Rienner Publisher, Inc, 1994.
2. Robinson, R, The Rise of Capital, Asian Studies Association of Australia, in Association with Allan Uwim, 1986
3. Lewis, J. P., Kallab, V., (eds.), Development Strategies Reconsidered, Overseas Development Council:, Washington D. C., 1986

## **SP6291, Standardization for Companies and Market (2 SKS)**

### **Short Syllabus**

-Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7040, Tourism Economic and Tourism Satellite Account (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

1. SP6103 Microeconomics, Pre-requisite.
2. SP6203 Macroeconomics, Co-requisite.

### **Bibliography**

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## **SP7050, History of Nusantara Culture (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7051, Coastal Protection Engineering (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7052, Satellite Technology for Regional Development (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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**SP7053, Regional Spatial Information System (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

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**Bibliography**

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**SP7054, Navigation Positioning (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

-

**Bibliography**

-

**SP7055, Fishery Management (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

-

**Bibliography**

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**SP7056, Coastal and Marine Cultivation (2 SKS)**

**Short Syllabus**

Not offered

**Related Courses**

-

**Bibliography**

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## **SP7057, Determining Sea Region Border (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7058, Mitigation of Marine Disaster (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP70A0, Independent Study (2 SKS)**

### **Short Syllabus**

Topics for independent study are based on individual thesis theme.

### **Related Courses**

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### **Bibliography**

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## **SP70Z1, Thesis (2 SKS)**

### **Short Syllabus**

Academic research paper

### **Related Courses**

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### **Bibliography**

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## **SP70Z2, Thesis (6 SKS)**

### **Short Syllabus**

- Academic research thesis writing

### **Related Courses**

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### **Bibliography**

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## **SP7100, Policy Analysis (2 SKS)**

### **Short Syllabus**

Concepts on policy analysis, ethics, issues in governance, generic policy, steps to policy analysis, policy models and recommendations, strategic thinking in adoption and implementation, policy discussion of the various sectors.

### **Related Courses**

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### **Bibliography**

1. Partowidago, W, Memahami Analisis Kebijakan: Kasus Reformasi Indonesia, Program Studi Pembangunan ITB, 1999
2. Welmer, D. L., Aidan, R. V, Policy Analysis-Concepts and Practice, New Jersey: Prentice-Hall, 1989
3. Stoneman, P, The Economic Analysis of Technology Policy, Oxford: Clarendon Press, 1987

## **SP7101, Modeling (2 SKS)**

### **Short Syllabus**

- Modeling concept, objective and procedure, input-output model, input-output energy, econometric model, multi equation simulation, time series, dynamic optimization, project planning simulation and simple problem simulation.

### **Related Courses**

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### **Bibliography**

1. Todaro, M. P., Development Planning: Models and Methods, Nairobi: Oxford University Press, 1983
2. Pindyck, R. S., Rubinfeld, D. L., Econometric Models and Economic Forecasts, NY: McGraw Hill, 1976

## **SP7110, Rural Planning (2 SKS)**

### **Short Syllabus**

Characteristic of land and its uses for sustainable agriculture, social economic of rural areas, natural and human resource management, spatial and rural planning and rural development controls.

### **Related Courses**

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### **Bibliography**

1. Rondinelli, D. A., Rudle, K, Urban Functions in Rural Development, Washington: Clark Univ Press
2. Kasryono, et. al., Dinamika Ekonomi Pedesaan, Jakarta: Yayasan Obor

## **SP7111, Regional Planning (2 SKS)**

### **Short Syllabus**

Fundamentals of planning, urban and regional planning theories alternative approaches to urban and regional planning, planning process and regional analysis models.

### **Related Courses**

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### **Bibliography**

1. Hall, P, Urban and Regional Planning, George Allen and Unwim, London
2. McConnel, S., Theories for Planning : An Introduction, Heinemann, London

## **SP7112, Urban and Regional Economics (2 SKS)**

### **Short Syllabus**

Scope of urban and regional economy, location theory, transfer payment, location pattern, spatial aspects of urban economy, regional social accounting, relative regional industrial composition analysis, economic base analysis and regional input output analysis.

### **Related Courses**

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### **Bibliography**

1. Winger, A. R., Urban Economics; An Introduction, Charles E. Merrill, Columbus, Ohio
2. Bendavid, A., Regional Economics Analysis for Practitioneres, Praeger, New York
3. Heilbrun, J, Urban Economics and Public Policy, St. Martin's Press, New York

## **SP7113, Housing and Human Settlements Planning (2 SKS)**

### **Short Syllabus**

- Definition, process and concept in human settlements, issues in settlement development and planning methods.

### **Related Courses**

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### **Bibliography**

1. Harris, Nigel, Cities in the 1990s: The Challenge for Developing Countries, 1992
2. Devas, Nick, C. Rakodi. Managing fast Growing Cities, Longman 1993

## **SP7114, Transportation Planning (2 SKS)**

### **Short Syllabus**

Linkage between transportation systems and land use, data collection for transportation models, pedestrian forecasting, route dispersion model, transportation mode selection, transportation network system.

### **Related Courses**

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### **Bibliography**

1. Meyer, M. D., Miller, E. J., Urban Transportation Planning, A Decision Oriented Approach, McGraw Hill, New York, 1984
2. Morlok, E. K., Introduction to Transportation Planning and Engineering, McGraw Hill, New York, 1978

## **SP7120, System Dynamics (2 SKS)**

### **Short Syllabus**

Basic concepts in system simulation, feedback structure system and dynamic simulations for natural resources, firms, environment, economy, technology, politic and development and poverty alleviation.

### **Related Courses**

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### **Bibliography**

1. Richardson, G. P., Pugh III, A. L, Introduction to System Dynamics, Modeling with Dynamo, Cambridge: Productivity Press, 1981
2. Meadows, D, Towards Global Equilibrium, Cambridge: Productivity Press, 1981

3. Saeed, K, Development Planning and Policy Design, A System Dynamics Approach, Singapore: Avesbury, 1994

### **SP7121, Dynamics and System Control (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

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#### **Bibliography**

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### **SP7122, Industrial Policy and Economics (2 SKS)**

#### **Short Syllabus**

Structural conduct and performance paradigm, market structure typology, industrial policy selection, industrial economics and international trade, price discrimination, small and medium industries.

#### **Related Courses**

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#### **Bibliography**

1. Schere, F. M, Industrial Market Structure and Economic Performance, Chicago: Rand McNally, 1990
2. Poot, H., Industrialization and Trade in Indonesia, Yogya: UGM Press, 1988
3. Martin, S, Industrial Economics: Economic Analysis and Public Policy, London: MacMillan Publishing, 1992

### **SP7123, Business Planning (2 SKS)**

#### **Short Syllabus**

Business development plan, entrepreneurship, business opportunity identification, new business management, portfolio analysis, business development strategy.

#### **Related Courses**

1. SP6221 Innovation and Entrepreneurship, Co-requisites.

#### **Bibliography**

1. Foster, R. N., Kaplan, S, Creative Destruction, Currency Book, New York

2. Kiyosaki, R. T, Rich Dad, Poor Dad, Jakarta, Gramedia
3. Kiyosaki, R. T., Cash Flow Quadrant, Jakarta, Gramedia

### **SP7130, Energy Economics (2 SKS)**

#### **Short Syllabus**

Energy as a commodity, statistical allocation, dynamic allocation, economics of un-renewable energy resources, energy use externalities, industrial energy

#### **Related Courses**

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#### **Bibliography**

1. Monasinghe, M., Energy Economics, Demand Management and Conservation Policy, NY: Van Nostrand Reinhold, 1983
2. Randall, A, Resource Economics: An Economics Approach to Natural Resource and Environmental Policy, NY: John Wiley & Son, 1987

### **SP7131, Energy Policy (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

-

#### **Bibliography**

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### **SP7132, Natural Heat (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

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#### **Bibliography**

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### **SP7133, Coal (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

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### **Bibliography**

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## **SP7134, Natural Gas (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7135, Energy Technology (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7136, Cogeneration in Energy System (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7137, Energy Conservation (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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### **SP7138, Energy Balance and Budget (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

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### **Bibliography**

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### **SP7139, Economics for Electricity (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

-

### **Bibliography**

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### **SP7140, Tourism Planning Process (2 SKS)**

#### **Short Syllabus**

Tourism as geographic phenomenon, defining global/regional target, tourism forecasting, market segmentation, institution and human resources, tourism investment and mitigation of tourism impact.-

#### **Related Courses**

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### **Bibliography**

1. Inskoop, E, Tourism Planning: An Integrated and Sustainable Development Approach, London: Van Nostrand Reinhold, 1991
2. Page, S, Urban Tourism, London: Routeledge , 1995
3. Edgell, D. L, World Tourism at the Millenium, USTTA, 1993

### **SP7141, Tourism Policy and Development (2 SKS)**

#### **Short Syllabus**

Old and new tourism, market failure and public choice, employment opportunity, multiple effect of tourism sector, evaluation and monitoring program, time share as a

policy issue, tourism investment, international dimension, social access to tourism vs. alternative tourism.

### **Related Courses**

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### **Bibliography**

1. Johnson, P., Thomas, B., (ed.), Perspective on Tourism Policy, Mansell Publishing Ltd, 1992
2. Shaw, G., Allan, M. W., Critical Issues in Tourism, A Geographical Perspective, Blackwell, 1994

## **SP7142, Tourism Destination Management (2 SKS)**

### **Short Syllabus**

Definition of tourism services, tourism in Indonesia, management cycles for planning, organizing, actuating, controlling, competitor analysis, total quality management, product management and case studies.

### **Related Courses**

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### **Bibliography**

1. Olse, M. D., et. al., Strategic Management in the Hospitality Industry, NY: VN Reinhold, 1992
2. McIntosh, R. W., Goeldner, C. R., Tourism Principles, Practices, Philosophies, NY: John Wiley & Son, 1986

## **SP7150, River Basin and Water Resource Management (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

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### **Bibliography**

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## **SP7160, Consultancy (2 SKS)**

### **Short Syllabus**

The course aims to discuss issues in consultancy at the formal project level as well as community participatory level. Topics include project management, models for development consultancy with community participation.

### **Related Courses**

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### **Bibliography**

1. Harrison, E. R, Construction Project Administration: The Sociology of Modernization and Development, London: Unwin Hyman Ltd, 1988.
2. Archibald, R. D. Managing High-Technology Programs and Projects, New York: John Wiley & Sons, 1976
3. Korten, D.C, et al, People Centered Development, Connecticut: Kumarian Press, 1984

### **SP7190, Development Economics (2 SKS)**

#### **Short Syllabus**

Theories and concepts in development economics, key issues in development and micro and macro policies., social welfare indicators, agriculture transformation, industrial strategy, export orientation and import substitution strategies, global trading and politics.

### **Related Courses**

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### **Bibliography**

1. Todaro, MP, Economic Development in the Third World, NY: Longman 1994
2. Dals, Herman E and John B Cobb, For the Common Good: Redirecting the Economy Toward Community, Environment and a Sustainable Future, Boston: Beacon Press, 1994

### **SP7191, Gender and Development (2 SKS)**

#### **Short Syllabus**

Gender relations in the society, sex and gender, social construction of gender, factors of gender inequality, gender analysis framework, gender planning in development, women's role and participation in development, S & T, urban, work place and domestic domain, and reproduction process.

### **Related Courses**

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### **Bibliography**

1. Bowles, Gloria et al (eds) Theories of Women Studies, London: Routledge, 1983
2. Clarke, Liz & Lawson T, Gender: An Introduction, Slough: University Tutorial Press, 1985
3. Moser, Caroline et al, Gender: Gender Planning and Development: Theory, Practice and Planning, London: Routledge, 1993-

## **SP7192, Decision Support System (2 SKS)**

### **Short Syllabus**

Decision making process, rational and psycho-social factors, risk of uncertainty, heuristic decision, critical decision making, decision making in bi-partite and multi-partite negotiations.

### **Related Courses**

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### **Bibliography**

1. Bazerman, M.H, Judgment in Managerial Decision Making, third ed, Singapore: Wiley & Sons, 1994.
2. Bazerman, M. H and Nale M. S, Negotiating Rationality, NY: The Free Press, 1992-

## **SP7193, Strategic Management (2 SKS)**

### **Short Syllabus**

Not offered

### **Related Courses**

-

### **Bibliography**

-

## **SP7194, Institution and Development (2 SKS)**

### **Short Syllabus**

Introduction to institution and organization of value systems, classical and contemporary theories on institutions, strategic management process, public policy process, institutional development in regional autonomy, institutional development design for urban and rural areas.

### **Related Courses**

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### **Bibliography**

1. Osborne, David, Red Gaebler, Reinventing Government, PPM 1995
2. Steven J.K Walters, Enterprise, Government and the Public, McGraw Hill International, 1993-

## **SP7195, Future Study (2 SKS)**

### **Short Syllabus**

Trends in future studies on inter-discipline collaboration, Delphi technique, cross impact

analysis, long term forecasting, limits of growth, third wave, megatrend 2000, common future and power shift.

### **Related Courses**

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### **Bibliography**

1. Helmer O., Looking Forward: A Guide to Future Research, Beverly Hills: Sage, 1983.
2. Meadows, D. H et al. The Limits to Growth, NY: University Book, 1981.
3. Naisbit J, Megatrends, NY: Warner Books, 1984

### **SP7196, Labor Economics (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

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#### **Bibliography**

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### **SP7197, Labor Force Planning (2 SKS)**

#### **Short Syllabus**

Not offered

#### **Related Courses**

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#### **Bibliography**

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### **SHORT SYLLABUS of SECURITIES STUDIES (within MASTER PROGRAM IN DEVELOPMENT STUDIES)**

#### **MP6001 Baseline Research**

Short Syllabus

Principles in research methodology and thesis writing technique. Students are expected to be able to write research proposal for thesis.

#### **Bibliography:**

1. Adamson A, *A Student's Guide for Assignments, Projects and Research*, (Adamson Publications, Lauth, 1990).

2. Easterby-Smith, M, Thorpe, R and Lowe, A, *Management research - an introduction*, (Sage, 1991).
3. Greenfield, T, *Research methods - Guidance for Postgraduates*, (Arnold, 1996).
4. Defence and Security links <http://www.cdiss.org/links.htm>

### **MP6011 Good Governance and the Security Sector**

Short Syllabus:

Defence expenditure, political accountability and defence, defence and the society, human rights, legal obedience, freedom of the press and media. The course provides students with a critical understanding of the structure and process defence and security can be managed by a democratic society.

Bibliography:

1. Ball, Terence and Dagger, Richard, (Eds.), *Ideals and Ideologies: a Reader*, (third edition, Longman, New York, 1999)
2. Birch, Anthony, *The Concepts and Theories of Modern Democracy*, (Routledge, London 1993).
3. Huntingdon, Samuel P, *The Soldier and the State: the Theory and Politics of Civil-Military Relations*, (Belknap, Harvard University Press, revised edition, Cambridge MA and London 1985)
4. Mill, John Stuart, *On Liberty* (1859)(Oxford 1998)
5. Scruton, Roger, *A Dictionary of Political Thought*, (new edition, Macmillan, 1996).

### **MP6012 Law and International Organization**

Short Syllabus:

International law in the international political system, international law and the use of force, armed conflict laws, international crime law and the working of the international criminal tribunals, relation between international law and domestic law on the use of armed forces.

The course provides understanding and knowledge on laws that affect strategic decision on the use of force and the implementation of military operations.

Bibliography:

1. Harris, D G, *Cases and Materials on International Law*, 5<sup>th</sup> Edition, Sweet and Maxwell, London 1998. ISBN 0421 53480 X
2. Roberts, Adam and Guelff, Richard, *Documents on the Laws of War*, (3<sup>rd</sup> Edition, Oxford University Press 2000)
3. Walzer, Michael, *Just and Unjust Wars: a moral argument with historical illustrations*, Basic Books, London 1977. ISBN 0 465 00724 4
4. Gray, Christine, *International Law and the Use of Force*, Oxford University Press 2000.

5. Fleck, D (Ed), *The Handbook of Humanitarian Law in Armed Conflict*, Oxford University Press, 1995.

### **MP6013 Evaluation of Strategic Thoughts**

#### Short Syllabus:

Definition of war; fundamentals of war; defining victory; air power in modern warfare. Theories in war strategy by Sun-Tzu to John Warden will be discussed so that students will get a wholesome knowledge on defence strategy.

#### Bibliography:

1. Adams, James, *The Next World War. The Warriors and Weapons of the new Battlefields in Cyberspace* (London, 1998).
2. Boulding, E, Ed., *New Agendas for Peace Research: Conflict and Security Re-examined* (Lynne Rienner, 1992).
3. Brown N, *The Strategic Revolution*, (London, 1992).
4. Westing, A E, Ed., *Global Resources and International Conflict: Environmental Factors in Strategic Policy and Action*, (Oxford, 1986).
5. [www.GlobalSecurity.org](http://www.GlobalSecurity.org) is focused on innovative approaches to the emerging security challenges of the new millennium

### **MP6014 Critical Study on Security Issues**

#### Short Syllabus:

Cooperation between agencies, asymmetry conflict, resolution conflict, transformation conflict, negotiation, role of NGOs, global and national security. The course provides knowledge on security and its role as well as the limitations of armed forces and the military as well as introduction to resolution conflict and geopolitics.

#### Bibliography:

1. Bellamy, Christopher, *Spiral Through Time: Beyond 'Conflict Intensity'*, (HMSO, London 1998).
2. Lederach, John Paul, *Building Peace, Sustainable Reconciliation in Divided Societies*, US Institute of Peace. ISBN 1 878379 73 9
3. Gray, Colin S and Sloan, Geoffrey, Eds, *Geopolitics, Geography and Strategy*, Frank Cass London. ISBN 0 7146 805
4. Bloch, Jan [Bliokh, Ivan], *Is War Now Impossible?* (trans. From Russian of 1898, London, 1899).
5. Carnegie Commission on Preventing Deadly Conflict, *Preventing Deadly Conflict*, (New York, 1998).

## **MP6015 Public Policy**

### Short Syllabus:

Introduction to Public Policy: public policy and its development in Indonesia; public policy theory on pluralist, public choice and socialist; implementation of public policy in Indonesia; structure and environment that influence public policy; democracy and government system; and its implications on public policy.

Students will be taught to analyze and formulate public policy by using the different approaches in universal policy making which are adapted to local context.

### Bibliography:

1. Horton, Sylvia and Farnham, David, (Eds.), *Public Management in Britain*, (Macmillan, Basingstoke, 1999)
2. Hague, Rod, Harrop, Martin and Breslin, Shaun, *Comparative Government and Politics: an Introduction* (fourth edition, Macmillan, Basingstoke, 1998).
3. Mill, John Stuart, *Considerations on Representative Government* (Prometheus, 1991)

## **MP6016 Defence Strategy and Management of Change**

### Short Syllabus:

Introduction to management of change; strategic vision; leadership; effective team work; organizational change; process in organization change. Students are taught on the importance of leadership in management of change, specifically with regards to defence.

### Bibliography:

1. Chuter, David, *Defence Transformation: A Short Guide to the Issues*, ISS Monograph 49, 2000.
2. McConville & Holmes, *Defence Management in Uncertain Times*, Cass, 2003.
3. Baylis et al, *Strategy in the Contemporary World*, Oxford University Press, 2002.

## **MP6017 Security in Asia Pacific**

### Short Syllabus:

History (period before colonialization up to independence of Indonesia); role of ASEAN; influences from China, India and Australia; military balance; future security. Students are taught the history, geography, culture and politics in security issues that influence Asia Pacific.

### Bibliography:

1. Ball, Desmond, *The Transformation of Security in Asia-Pacific*, London, 1996.
2. Headington, Yvonne, *Defence Outlook: SE Asia and Australasia*, FT Management Report, 1996.

3. Leifer, Michael, *ASEAN and the Security of South-East Asia*, Routledge, 1989.
4. Segal, Gerald, *Rethinking the Pacific*, Oxford, 1990.

### **MP6022 Defence Economy and Finance**

#### Short Syllabus:

Economic principles in the defence context; critical evaluation on contribution to economic theory in management of defence resources; defence as a burden or profit; the link between defence and economic growth. The course explains the relationship among defence finance, national economy and economic growth.

#### Bibliography:

1. Mathews & Maddison, *International Defence Management Studies*, Cranfield UP, 2002.
2. McConville & Holmes, *Defence Management in Uncertain Times*, Cass, 2003
3. Robertson & Mills, *Accounting Principles for Non-Accounting Students*, Mars, 2000
4. Myddelton, *Managing Business Finance*, Pearson, 2000

### **MP6023 Strategic and Defence Management**

#### Short Syllabus:

Management (past and current); scale and range in an industry; corporate advantage and governance; theory and practice of management of change.

#### Bibliography:

1. Bryden, Alan & Fluri, Philipp, *Security Sector Reform: Institutions, Society & Good Governance*, Geneva centre for the democratic control of armed forces (DCAF), 2000.
2. Hickson & Pugh, *Management Worldwide: distinctive styles amid globalization*, Penguin, 2004.
3. JDCC, *Strategic Trends*, JDCC, 2002.

### **MP6024 Disaster Management**

#### Short Syllabus:

The armed forces often conduct non warfare military operations for the purpose of peace, humanity, disaster management activity etc.

#### Bibliography:

1. Alexander, David, *Natural Disasters*, London, 1993.
2. Carter, W. Nick, *Disaster Management: A Disaster Manager's Handbook*, Manila, 1992.

3. Davis, Ian and Gupta, Stayendra, P., *Disaster Mitigation in Asia and the Pasific*, Manila, 1991.
4. Toft, B. and Reynolds, *Learning from Disasters: A Management Approach*, Oxford, 1994.

### **MP6025 Risk Management**

#### Short Syllabus:

Analysis of factors that affect corporate security; risk analysis and management; ad-hoc management planning; political risk analysis; insurance risk analysis.

#### Bibliography:

1. Adams, J. *Risk*, Wiley, London, 1996
2. Bernstein, Peter *Against the Gods*, Wiley, London, 1998.
3. Borge, Dan *The Book of Risk*, Wiley, London, 2001.
4. Fisher and Green, *Introduction to Security*, Butterworth-Heinemann, 2001

### **MP6026 Defence Acquisition and Logistics**

#### Short Syllabus:

Intelligent customer; defence technology; capability; effective defence acquisition; budgeting and equipment planning; political consideration.

#### Bibliography:

1. Womack, J. *The Machine that Changed the World*, Harper, 1991
2. Christoper, M. *Logistics and Supply Chain Management*, FT 1998.
3. Kincaid, B. *Dinosaur in Permafrost*, Thesaurus, 2002.
4. Weele, AJ van., *Purchasing and Supply Chain Management*, Thompson Learning, 2001.

### **MP6027 Management of Human Resources**

#### Short Syllabus:

Group dynamics; structural limits; culture and force; HRM; strategy for management of differences; defence contexts in the Asia Pacific.

#### Bibliography:

1. Brooks, *Organizational Behavior*, Pearson, 2004.
2. Beardwell & Holden, *Human Resource Management: A contemporary Approach*, Pearson, 2004

3. Ott, Parkes & Simpson, *Classic Readings in Organizational behavior*, Wadsworth, 2002.

### **MP6101 Science, Art and Technology of War**

#### Short Syllabus:

Major transformation in war from classic Greeks and Romans to present in Military Affairs Revolution. Different factors in strategic thinking, technology, nationalism, economics, politics and moral which have influenced war for centuries.

#### Bibliography:

1. Bellamy, Christopher, *Knights in White Armour*, Pimlico, 1997.
2. Gray, Colin S, *Modern Strategy*, Oxford University Press, 1999.
3. Holmes, Richard, *The Oxford Companion to Military History*, Oxford University Press, 2003.
4. Paret, Peter, *Makers of Modern Strategy: From Machiavelli to the Nuclear Age*, Clarendon Press, 1986.

### **MP6102 Management Science**

#### Short Syllabus:

Scope of management science and its application in decision making; management models; system approach; organization and complex models; statistical allocation of resources; decision making in uncertainty and risk; multi-criteria decision making; management system simulation.

#### Bibliography:

1. Hickson & Pugh, *Management Worldwide: distinctive styles amid globalization*, Penguin, 2004.
2. Cole, G.A, *Management: Theory & Practice*, Thompson Learning, 2003.
3. Pettinger, R., *Introduction to Management*, Palgrave, 2002.
4. Bovaird, T., *Public Management and Governance*, Routledge, 2003.

### **MP6103 Strategic Environment and Contemporary Military**

#### Short Syllabus:

Geopolitics; conflict typology; military application; military campaign; conflict resolution & prevention; security threats which do not require armed forces; intelligence; war information; control of mass destroyer weapons; defence sector reform; international arms trade.

#### Bibliography:

1. Brown, N., *The Strategic Revolution*, London, 1992.

2. Graeger, N. and Smith, D. eds., *Environment, Poverty, Conflict*, International Peace Research Institute (PRIO) Report 2/94, 2<sup>nd</sup> ed., 1994.
3. Rogers, Paul, *Losing Control: Global Security in the Twenty-First Century*, Pluto, London, 2000.
4. Austin, Jay E. and Carl E. Bruch, (Eds), *The Environmental Consequences of War: Legal, Economic, and Scientific Perspectives*, Cambridge University Press, 2000.

### **MP6104 Principles of Defence Management**

Short Syllabus:

Organization management principles; management strategy objectives; risk analysis and management; its application in defence problems.

Bibliography:

1. Hickson & Pugh, *Management Worldwide: distinctive styles amid globalization*, Penguin, 2004.
2. Cole, G.A, *Management: Theory & Practice*, Thompson Learning, 2003.
3. Pettinger, R., *Introduction to Management*, Palgrave, 2002.
4. Bovaird, T., *Public Management and Governance*, Routledge, 2003.

### **MP70Z1 Final Project**

Students are required to write academic research report that is 10,000 to 15,000 words, and assigned to a supervisor.

Bibliography:

-depending on research topic-

### **MP7101 Defence Technology Management**

Short Syllabus:

Technology resources as integral component in the latest global force structure; historical relationship defence and innovation technologies; defence economy; defence industrialization process; revolution in military affairs; defence science and technology strategy; technology transfer and cooperation; global defence. Case studies on China's military industrial complex; Japanese defence industry model, etc.

Bibliography:

1. Womack, J. *The Machine that Changed the World*, Harper, 1991
2. Christopher, M. *Logistics and Supply Chain Management*, FT 1998.
3. Kincaid, B. *Dinosaur in Permafrost*, Thesaurus, 2002.
4. Weele, AJ van., *Purchasing and Supply Chain Management*, Thompson Learning, 2001.

## **MP7102 Special Topics**

Short Syllabus:

Aviation, land and marine technology; satellite remote sensing; laser; nuclear; biology and chemistry; information technology.

Bibliography:

- depends on the chosen topic -