

CURRICULUM VITAE

NAME : ANANG Z. GANI.
DATE OF BIRTH : Malang, August 24, 1939
NATIONALITY : Indonesia
EDUCATION : 1. Ir., Mechanical Engineering, Institut of Technology Bandung, 1963
2. Master of Science in Industrial Engineering, Georgia Institute of Technology, Atlanta, USA, 1965
3. Doctor in Organization Aziendale, Universita' degli Studi di Padova, Padova, Italia, 1972

RESEARCH AREAS

Operations research, Industrial System, Policy Study, Business Simulation, Business Process. The main research interest is developing the theory of interaction, which leads to proving that $N = NP$ problem. This is a challenge in the field of Mathematics, Computer Science, and Operations Research and other applications

"P" Problem. (Polynomial-time algorithm) that is a group of relatively simple problems solved by the algorithm with polynomial time with the increasing size of the problem, and "NP-Complete Problem". (Non-polynomial-time algorithm or exponential complexity algorithm) is a group of problem difficult and which require exponential computer time.

The Interaction Theory has been developed since 1966. It is new approach to solve TSP that is different from the existing philosophies in the field of Mathematic, Computer Science, and Operations Research. Further development of the Interaction Theory will find broad practical applications and might cause a great change due to the fact that the procedure is so effective using simple arithmetic

EMPLOYMENT RECORDS:

From 1963 to 2005 : Institut Teknologi Bandung.
From 2007-2010 : Institut Teknologi Telkom, Indonesia
From 2012 : Widyatama University

Positions Held :

- Professor in Industrial Engineering , Widyatama University , 2012
- Professor in Industrial Engineering, Institut Teknologi Telkom 2008 – 2011
- Professor in Industrial Engineering, UNISBA 2005 – 2007
- Professor in Industrial Engineering, Institut Teknologi Bandung, 1989 - 2004
- Chairman of the Graduate Program of Industrial Engineering and Management, 1990-1996.

- Chairman of the Department of Industrial Engineering. 1977- 1979.
- Executive Secretary of the Department of Industrial Engineering, 1973-1975.
- Managing Director of the Institute of Industrial Engineering and Management – ITB (LETMI - ITB), 1974-1978.
- Executive Secretary of the Department of Mechanical Engineering, 1965-1967

BUSINESS:

Founder PT. Kutami Management Technology and PT Amarta Zwara Guna,

CONSULTANT:

Consultant for various ministries and industries:

- Ministry of Tourism, Post and Telecommunication ,
- Ministry of Communication,
- Ministry of Industry
- Ministry of Public Works
- Ministry of Mining and Energy
- PT. Semen Gresik
- PT. Guna Nusa.
- PT. Propelat
- PT. Barata
- PT. Boma Bisma.
- PT. Telekom Indonesia.
- PT. Pos Indonesia
- PT. Angkasa Pura II
- PT. Kimia Farma
- PT. BIO FARMA
- PERUMKA
- PT. INKA
- PT. INTI
- PT. IPTN
- PERTAMINA.
- CONSOR
- BOZZETO Spa

RESEARCH AND DEVELOPMENT

- Planning and Development Policy of National Air Transport Human Resources. Ministry of Communication 2011
 - Study of Multiplier Effect of Telecommunications Liberalization to the Economic Growth , Indonesia Ministry of Communications and Information Technology, 2010
 - Study of Spin-Off STPI (Indonesian Academic Aviation School) Curug Diklat ,Ministry of Communication , 2010
 - Institutional Planning of PIP Semarang, PIP Makasar, dan BP3IP Surabaya for Balai Besar Diklat Ilmu Pelayaran, Training Institute of Ministry communication , 2009
 - Shareholding Studies in Telecommunications Industry, Indonesia Ministry of Communications and Information Technology, 2008
 - Study of Service Management Information System Parameters Customer Satisfaction Measurement of Radio Frequency Spectrum, 2007
 - Development of Institutional Forms Unit Training and Public Service Board (BLU)
 - Training Institute of Ministry communication , 2006
 - Assessment Schedule Preparation Of Specific Commitment (SOC) Sector Postal Services Sector in WTO Negotiations, Directorate General of Post and Telecommunication.2005.
 - Master Plan Study of Point of Service Universal Service Obligation (USO) of Postal Services , Directorate General of Post and Telecommunication.2004.
 - Consultant for National Operator Selection of 3-G (Third Generation Mobile Cellular Network), Directorate General of Post and Telecommunication. 2003.
 - Budget System Strategy .for Kalimantan Province,2002
 - Strategi DAU TA 2003 untuk Kaltim dan Riau, 2002.
 - Improvement of Management Information System of Kalimantan Timur.
 - Kalimantan Timur, LP-ITB, 2001.
 - Policy Reform and Blue Print of Sea Transportation , 2000
- 1999 Policy Reform and Blue Print of Marine Transportation
- 1999 Master Plan of H & R Educational Training Development at Department of Transportation
- 1998 Human Resources and Educational Development Feasibility and Training (Independent) at PT. (Persero) Angkasa Pura II.
- 1998 H & R Development Studies and Educational Training at PT. (Persero) Angkasa Pura II
- 1998 Energy and Electricity Development Centre Master Plan arrangement

- 1997 Decision Support System Development Research Planning and Executive Information System (EIS) at PT. Pos Indonesia
- 1997 Text arrangement studies pa the VII th. Postal Five Year Plan, LAPI-ITB
- 1997 National Postal System Development Studies, LAPI-ITB
- 1997 Transfer Pricing at PT. Pos Indonesia (Persero)
- 1996 The Postal Legislation and Restructuring and Improvement of Service Quality and Efficiency Through the use of Information Technology
- 1996 National Postal System Development Studies
- 1996 Transfer Pricing Research
- 1996 Information System at the Direktorat of Operations of a PT. (Persero) Angkasa Pura II
- 1996 Master Plan Studies and Post and Giro Network Services and Services Improvement Strategies, LAPI-ITB
- 1996 Research on Consumer Behaviour Prespectives in the year 2000, LAPI-ITB
- 1995 Compilation of Request For Proposal Study of Business Opprouch to Rural Telecommunication
- 1995 Second Stage Research on Public Demands for Tourism Post Telephone Service, LAPI-ITB
- 1994 First Stage Research on Public Demands for Tourism Post Telecommunication Service, LAPI-ITB
- 1994 Management Information Systems application on Merchondige Forwarding Service (Post Parcels Service), LAPI-ITB
- 1994 National Telecommunication System Development Research, LAPI-ITB
- 1994 Second Stage Resources Design Formation Research Perum Post and Giro
- 1994 Implementation Stage Management Information Systems Elucidation Post and Giro, LAPI-ITB.
- 1994 Supervisory Stage Management Information Systems Elucidation Post and Giro, LAPI-ITB.
- 1994 Research on Floating Post and Giro, LAPI-ITB
- 1994 Research on Vestibule Realization / Completeness, LAPI-ITB
- 1994 National Telecommunication System Development Research
- 1994 Public Demands on Tourism Post Telecommunication Service Research
- 1994 Research on Optimalization of Postal Unit Service Function and Postal Service Design Specifications
- 1994 Research on Postal Tarriff System Simplification Based on Envelope Size (for letters) (Flat Rate Regordless of Weight), LAPI-ITB
- 1994 Research on Non Courier Postal Delivery Patterns, LAPI-ITB
- 1994 Management Information System Application on Subsystem Service of Goods Forwarding Service (Postal Parcels Service)
- 1994 Research on Automation as a Postal Delivery Back-up, LAPI-ITB.
- 1993 Study on Post and Telecommunication Standarization Arrangements,

LAPI-ITB

- 1993 Master of Business Administration in Management Technology, Institute Technology Bandung, LAPI – ITB
- 1993 Compilation of National Postal System-Go Public Program in the Framework of Postal cognizance, LAPI-ITB
- 1993 Research on Public Needs for Tourism, Post, Telecommunication Service, LAPI-ITB
- 1993 Research on Management Resources Formation Design Post and Giro, LAPI-ITB.
- 1993 Elucidation on Management Information System Post and Giro, LAPI-ITB.
- 1993 Elucidation on Management and Information System Post and Giro on Postal Letters Subsystem Training for Supervisory Authorities
- 1993 Development on Electronical Postal Network System and Implementation of Executives Information System at Post and Giro Headoffice
- 1993 Compilation of Long Term Program for 1994-1998, LAPI-ITB
- 1993 Development of Postal Processing Engineering at Perum Pos & Giro, LAPI-ITB
- 1992 SIM Application at Post and Giro, LAPI-ITB
- 1992 Development of Postal Collections and Postal Letters Delivery Engineering, LAPI-ITB
- 1992 Compilation of a Project's Feasibility Evaluation System at Perum Pos & Giro, LAPI-ITB.
- 1992 Development of Computer Network System for the Strategic Planning and MIS Control
- 1992 Integrated Planning Upgrading Fifth Stage/1992
- 1992 Management Information System Elucidation Perum Pos & Giro
- 1991 Evaluastion of the National Postal System Implementation
- 1991 Evaluation of the Implementation of National Postal System, LAPI-ITB
- 1990 Measurement of the Human Resources Productivity
- 1990 Arrangement of Integrated Upgrading for Perum Pos & Giro Employees.
- 1990 Research on Position Analysis at the Perum Pos & Giro Employees
- 1990 Information Management System Application on Postal Service at the Perum Pos & Giro.
- 1990 Executive Course on National Postal Service System
- 1990 Postal Engineering Development
- 1990 Education and Sensitive Postal Tracing (Design System Traching) and Security.
- 1989 Compilation of Design and Strategic Program Application Planning
- 1989 Design of a System for the Perfection of Informal Management Systems
- 1988 "An Education and Training Strategy Concept in Management for Human

- Resources Development in Telecommunication”, Asian Institute of Technology, AIT, ITU, APT, Bangkok, December
- 1988 “The Application of the Interaction Theory in Solving the Transportation Problem”, The Operation Research Society of America/The Management Institute of Management Science National Meeting, Washington DC.
- 1988 “The Role of Interaction Technology in the Improvement of the National System Productivity”, Symposium on Information Technology, Tokyo
- 1988 Manpower Planning Research
- 1988 Second Stage National Postal Systems
- 1988 Total Quality Control Studies
- 1988 Comparison Study of the Vogel Method and the Interaction Theory for Transportation Problems, Productivity Improvement Through Production Control Planning and its Relation to High Technology, Bandung
- 1988 Research an the Application of General Postal Delivery Design, Production System KBK, Industrial Mangement Department, ITB
- 1988 Research on the Service Quality Improvement by the Application of the Bi-Plot Technique, Production System KBK, Industrial Management Department ITB
- 1988 Regular Procedures on Program Compilation and Integrated Development Budget of Perum Pos & Giro.
- 1988 Research on Standarization of the Post & Giro Office Building Type, KBK Production System, Industrial Management Department ITB.
- 1987 Compilation of the Tourism, Post and Telecommunication Fifth Five Year Plan Draft.
- 1987 Research on Post & Giro Office Building Type.
- 1987 "The Application of the Interaction Theory for Solving Salesman Problem (TSP)", The ORSA/TIMS Joint National Meeting, ST. Louis USA
- 1986 Second Stage National Telecommunication Studies
- 1986 Soil Investigation at Saraden Madiun
- 1985 'Project Management Technique", Seminar Project Management for Telecommunication, LAPI ITB – DGT (France) - Perumtel, Bandung
- 1985 Experience on the Education Sector and Work Training for the Telecommunication and Electronics Sector, PPI Indonesia, Jakarta.
- 1985 Postal Letters Delivery Method Studies and Productivity Development Strategies, (Seminar and Improvement Through Technological Innovation) Bandung
- 1985 National Telecommunication System Study, LAPI-ITB
- 1984 “ Zero Base Budgeting System, Budgeting for KPB I Bandung, “ Seminar on Postal Planning, Ditjen Postal-Nepostel (Netherland), Bandung.
- 1984 "Integrated Planning Approach", Seminar Project Feasibility Study and

- Project Financing, ITB-IPSOI (France), Bandung
- 1984 Corporate Planning Development Concept, Seminar on Postal Planning, Bandung.
- 1984 Research to Regulate the General Standard on Postal Letters Deliveries in Indonesia (IV th. Stage), LAPI-ITB
- 1983 Research to Regulate the General Standard on Postal Letters in Surabaya (III Rd. Stage), LAPI-ITB
- 1983 Corporate Planning PT. INKA
- 1983 Corporate Planning Perum Pos dan Giro, LAPI – ITB
- 1983 Corporate Planning PT. INTI, LETMI – ITB
- 1983 Compilation Studies on Organization Structure and Job and Position Description and Clasification / Standarization Witel and Perumtel Office, LETMI-ITB
- 1982 Research to Regulate the General Standard on Postal Letters Deliveries in Bandung (II nd.Stage), LAPI-ITB
- 1982 "How to Increase Productivity via Human Resources", Seminar Project Management ITB - IPSOI (France), Bandung
- 1982 Research to Regulate the General Standard on Postal Letters (I St stage). Developed Model, LAPI-ITB
- 1982 Development of Framework System and Accounting Models for Small Industrial Production Enterprises, Research Foundation - ITB
- 1982 Compilation Study for the Pertamina Tanker Operation Model, Lemigas
- 1980 Pulp Plan Research Studies, PN Kertas Padalarang, LETMI-ITB
- 1979 Survey and Research Studies on the Improvenemnt of Post & Giro Service in Jakarta Pusat Area, LAPI-ITB
- 1979 Management Control Improvement and Telecommunication Forecasting Problems Studies, LAPI-ITB
- 1979 Studies on the Extension of the Cigarette Paper Factory (MK-IV), Kertas Padalarang, LETMI – ITB
- 1978 Research Studies on the Labour Problem at the Madia Factory in the Bandung Mayoralty, Research Foundation ITB
- 1978 Determination Studies on the Location of the West Java Industrial Area, Bapeda
- 1978 Development Studies on the Perumnas Production Unit PPKRM Suria Kencana, LETMI – ITB
- 1976 “A Computer Model of Mail Delivery Pattern and Productivity Improvement”, Association Francaise Pour la Cybernetique Economique AECET and “GGI”, Paris
- 1976 Study of Evaluation on Belgian Aide for How Cost Housing Components in Indonesia, Dept. PUTL
- 1976 Master Plan PT. Adiguna, LETMI – ITB

- 1975 Studies on the Train Tarrif System, Dept. Perhubungan
- 1975 Research Studies on the Sukaluyu Housing Project Construction, LAPI-ITB
- 1974 Strategic Planning for PT. Propelat
- 1974 Strategic Planning for PT. Propelat
- 1969 Design Studies for Balai Yasa Jembatan PJKA
- 1969 Construction Planning for the Castrol Oil Factory, Semarang
- 1968 Job Evaluation Wage Sistem Analysis PT. Semen Gresik,
- 1965 Design Layout Studies Balai Yasa Manggarai,

TRAINING

- 1998 The Information Technology Training DEPPARSENIBUD
- 1997 V th. Stage Planning System Training at PT. (Persero) Angkasa Pura II
- 1997 The Telecommunication Management Training
- 1997 EDP Bank BNI Audit Training
- 1996 "Top Management Leader Course (TMLC)" Di Lingkungan BPIS
- 1996 Training for Planning System Stage I – IV at PT. (Persero) Angkasa Pura II
- 1994 Arrangements for Postal Engineering Training, LAPI-ITB
- 1994 Training for Postal Engineering
- 1993 The Telecommunication management Training Phase II, LAPI-ITB
- 1993 The Telcommunication Management Training, LAPI-ITB
- 1992-1994 Telecommunication Management Course
- 1989-1994 Perumtel Leadership and Staff Course (SUSPIM III)
- 1979-1994 Police Staff and Command College (SESKOPOL)
- 1990-1992 Perumtel Leadership and Staff Course (SUSPIM II)
- 1976-1992 Air Force Staff and Command College (SESKOAU)
- 1975-1985 Commander of the Army School (SESKOAD)
- 1992 The Telecommunication Management Training, LAPI-ITB
- 1991 Telecommunication Management Development Course, LAPI-ITB
- 1991 Training on Postal Engineering Stage I
- 1991 Course on the Integrated Planning Class 91 for Officials of Indonesia Postal Service
- 1990 Perumtel Stamp Management Course
- 1990 Instructures Total Quality Control for Training
- 1990 Planning for Training and Total Quality Control Instructures for DIKTIPOS Graduates Stage I, 1990
- 1988 Perum Post & Giro PMT/TQC Training
- 1988 SUSPATER Course (Army Operational Development Centre Territory School)

- 1982-1988 Kodim Leadership Course for Operational Systems Development Centre Army Territorial School, Consisting of 4 Stage
- 1981-1988 Territorial Development Course (Army Territorial Development Centre) : Consisting of 6 Stage
- 1985 JUPEN BINTER Course for (Operational systems Development Centre Army Territorial School)
- 1985 Susfungter Course (PUSDIKBANG SISPOS-TNI-AD)
- 1984-1985 Administration Army Staff College Consisting of Stage III until IV
- 1974-1985 Army Staff Collage Consisting of SUSREG Stage I until XI
- 1975-1976 Combined Armed Forces Staff College (SESKOGAB)

TRAININGS AND SEMINARS

- 1988 KUPT Leadership stage VI and V,
- 1986 Total Quality Control Seminar at PT. INDOSAT
- 1985-1986 Oil Management Seminar Stage I and II,
- 1984-1986 Supervisor Maintenance Course (Directorate General of Oil and Gas), LAPI-ITB Consisting of 6 Stage,
- 1978-1979- SESPA (LAN)
- 1980-1984-
- 1985-1986
- 1985 Total Quality Control Seminar at PT. INKA,
- 1984-1985 Train Meintenance Course (PJKA-LAPI-ITB),
- 1984 Corporate Planning Seminar at Perumtel,
- 1984 Simposium on the role of Telecommunication in the Process of the National Development Application Activities, Jakarta Veteran Economic Council
- 1983-1984 Cable Network Planning Seminar
- 1982-1983 Teaching act Lectures V
- dan 1984
- 1975-1982 Integrated Planning Seminar Since 1975-1982 Which was Attended by las than 700 Participants 700 peserta
- 1974-1982 Contruction Management Seminar Since 1974-1982 Which Attended by Around 850 Participants
- 1979 Modern Business Management Seminar (Cooperation between PT. Nasional Gobel and A.O.T.S. (Japan) Association for Overseas Technical Scholarship, (Japan) and O.T.C. (Overseas Training Center, Matsushita Electrical Industria Co Ltd Japan) 1979
- 1979 Information System Seminar, Cooperation between Lembaga Administrasi Negara (LAN) and Friedrich-Nauman-Stiftung (FNM)

1979
1979 Planning and Scheduling Seminar, Cooperation between ITB and NAUFFIC THT-2 1979
1979 Simposium on Management Practices in Indonesia, UNPAD (Management Development) 1979
1979 Seminar on PJKA Project Planning and Control (MIS Role) in the Control and Planning of a Project 1979
1974-1975-1977 SESPUT