

Ranking of Criteria and Making Decision Using Analytic Hierarchy Process (AHP)

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VENUE : BSG SQS, UUM
R. DEADLINE : 10 AUGUST 2017

SQS Statistical Consulting

TENTATIVE OF WORKSHOP

Registration

8.45 am — 10.45 am

Session 1 :

Introduction to AHP

Identification of suitable problems

Selection of suitable criteria

Determination of criteria weights

10.45 am — 11.00am

Tea Break

11.00 am — 1.00 pm

Session 2 :

Reducing the number of criteria

Handling the consistency issue

Handling the quantitative criteria

Performing sensitivity analysis

1.00 pm — 2.30 pm

Lunch/Break

2.30 pm — 4.30 pm

Session 3:

Inserting the criteria in other mathematical models

Hands-On with Expert Choice

BENEFIT

At the end of this workshop, the participants should be able to :

- * Learn how to define problems, identify criteria, and rank criteria.
- * Use the criteria to guide your decision making.
- * Explore *Expert Choice*, the AHP-software.
- * Involve in the team decision-making activities.

SPEAKER'S BIODATA

Prof. Dr. Engku obtained his PhD in Decision Science from Universiti Utara Malaysia (UUM), his MSc in Mathematics from NC State University, USA and his BSc in Mathematics from UNC-Charlotte, USA, and has been with UUM since 1991. He has conducted several research method workshops particularly for UUM and UiTM staff in Malaysia, Hatyai University and NIDA Bangkok, as well as Unisba, Unsyiah Kuala and UNPAD Bandung, Indonesia. He has also conducted workshops on various applications of quantitative techniques for many organizations such as INTAN, Ministry of Defense, Institute of Medical Research, Town Planning Council, MOHE and INTEL. His 27 years in the academe have ushered him to hold various designations: Assistant Vice Chancellor of UUM College of Arts and Sciences, Dean of Awang Had Salleh Graduate School of UUM College of Arts and Sciences, Director of the Quality and Strategic Planning Unit, Dean of the Student Affairs Division, Dean of the Undergraduate Studies Division, Dean of the School of Quantitative Sciences, and Deputy Director of the Practicum Unit at UUM. Currently he is a Professor as well as the Director of the Institute of Strategic Industrial Decision Modeling at the School of Quantitative Sciences, UUM.



SYNOPSIS:

AHP, introduced by Thomas Saaty (1980), is an effective tool for dealing with complex decision making, and may aid the decision maker to set priorities and make the best decision. By reducing complex decisions to a series of pairwise comparisons, and then synthesizing the results, AHP helps to capture both subjective and objective aspects of a decision. In addition, AHP incorporates a useful technique for checking the consistency of the decision maker's evaluations, thus reducing the bias in the decision making process.

AHP generates a weight for each evaluation criterion according to the decision maker's pairwise comparisons of the criteria. AHP is a very flexible and powerful tool because the scores, and therefore the final ranking of the criteria and decision alternatives, are obtained on the basis of the pairwise relative evaluations of both the criteria and the options provided by the user. The computations made by AHP are always guided by the decision maker's experience, and AHP can thus be considered as a tool that is able to translate the evaluations (both qualitative and quantitative) made by the decision maker into a multi-criteria ranking.

REGISTRATION FEE

Student	- RM 100
Govt. Staff	- RM 150
Others	- RM 200
Group payment (3 participants)	- RM270

REGISTRATION METHOD

1. Online registration at <http://bit.ly/2gYp8ZW>
(For payment using bank transfer)
2. Submit registration form via fax/email
(COMPULSORY for those who intend to pay using vote transfer)