

MECH3010 Engineering and Technology Management

<http://me.hku.hk/bse/MECH3010/>

Summary of Teaching (Dr. Sam C. M. Hui)

1. Introduction 1.1 Engineering 1.2 Principles of Management 1.3 Management Roles and Skills 1.4 Management Styles 1.5 Engineering Management 1.6 You and Your Career	4. Organizing and Staffing 4.1 Nature of Organizing 4.2 Organization Structure 4.3 Basis of Structuring 4.4 Teams 4.5 Staffing Technical Firms 4.6 Staff Training & Development 4.7 Delegation
2. Planning and Forecasting 2.1 Nature of Planning 2.2 Strategic Planning 2.3 SWOT Analysis 2.4 Planning Concepts 2.5 Forecasting 2.6 Forecasting Methods 2.7 Good Forecast	5. Leadership and Motivation 5.1 Leadership 5.2 Leadership Styles 5.3 Deciding 5.4 Communicating 5.5 Motivation 5.6 Motivation Theories 5.7 Motivating Professionals
3. Decision Theory and Decision Tree 3.1 Decision theory 3.2 Decision tree 3.3 Decision criteria 3.4 Decision analysis 3.5 Decision making under risk 3.6 Examples	6. Controlling 6.1 The Nature of Control 6.2 Controlling Function 6.3 Performance Control 6.4 Financial Controls 6.5 Non-Financial Controls

Concept Map:

