Extracted from Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6) (2017)

Contents of Learning Elements under the Knowledge Contexts in Technology Education

Information & Communication Technology	Materials & Structures	Operations & Manufacturing	Strategies & Management	Systems & Control	Technology & Living

Common topics	Contents
Technology & Society	- Legal issues - Ethical issues - Environmental issues - Health issues - Changes in lifestyle
Safety & Health	- Protective clothing - Choice, use and care of tools, equipment and chemicals - Working attitude - Good housekeeping of work area
Information Processing & Presentation	- Computer and computer operation - Application of information technology (IT) - Information processing and information processing tools - Issues related to the use of IT
Design & Applications	- Basic elements of design - Design process - Design consideration - Fashion design - Product design - Cost-benefit analysis
Consumer Education	- Consumers' rights and consumers' choices - Consequences of consumers' actions

Information & Communication Technology	Materials & Structures	Operations & Manufacturing	Strategies & Management	Systems & Control	Technology & Living
Computer Systems - Hardware and software - Properties and functions of usual components **Computer Networks** - Usual components of a computer network - Use of computer networks - Internet activities **Programming Concepts** - Problem solving procedures and techniques - Ideas of a stored program - Data manipulation	**Materials & Resources** - Types and nature of common materials - Material properties and testing - Appropriate application of resources for design work - Reuse and recycle of resources **Material Processing** - Processing of materials – removal, forming, joining and finishing - Appropriate choice and use of material process **Structures & Mechanisms** - Simple properties of structure and movement - Different structural design for various needs - Use of mechanisms for transmission and control of movements	**Tools & Equipment** - Safe use of tools and equipment - Appropriate choice and use of tools, equipment and machines for realisation of design solutions **Production Process** - Production process in various fields - Factors and constraints in choosing production process - Skills, procedures and resources for production process **Project Management** - Planning and organising work in steps or procedures - Co-operation and co-ordination with individuals in projects: decision-making, planning, organisation, control and evaluation procedures	**Business Environments, Operations & Organisations** - Business environments - economic, technological, cultural & physical, social-political, legal - Different types of business organisations - Decision-making, planning, organisation, control, evaluation, and quality assurance in business operations and projects **Resources Management** - Financial budgeting (personal & company) and reporting - Scheduling of resources - Human resources **Marketing** - Market research - Promotion campaigns - Customer services - Quality assurance	**Concepts of System** - Input, process and output - Open loop and closed control system - System components **Application of Systems** - Mechanical, electrical, electronic and pneumatic control systems - Model control systems **System Integration** - Interconnection of systems and sub-systems **Control & Automation** - Contemporary products - Control for automation - Computer-aided manufacturing (CAM)	**Food & Nutrition** - Food groups - Dietary goals & eating habits - Meal planning **Food Preparation & Processing** - Hygiene & safety - Principles of food preparation & processing - Skills in food preparation & processing **Fabric & Clothing Construction** - Choice of fabric in relation to design & construction - Pattern and garment construction **Fashion & Dress Sense** - Fashion trend & development - Choice of clothing for different considerations **Family Living** - Family relationship **Home Management & Technology** - Management of family resources & budgeting - Food technology - Energy saving devices