

Unit	Date	Per	Topics	Activities	Resources	Homework
Systems 1 Introduction	June	6	Input/process/output Information/data Software/hardware		Course intro.pps Systems1.pps Microsoft Visual Basic	Task 5 (Matching)  Walsh Chap 15 Hardware
Systems 2  Software	Aug  To  Nov	20	Programming languages Machine Code Assemblers Interpreter/Compiler Operating Systems Filing Systems Networks Memory Multi Access Batch processing High level languages Internal Documentation Programming Environments Structure Diagrams	Cargo Quiz programs Task 14  Compare Dos to Windows Look at file extensions  System Monitor - memory  Compare Pascal versions  Modify Quiz program Mindmap OS functions Mindmap Language characteristics  <b>Unit Test</b>	Cargo, Cargo.pps  Quiz examples sheet Computer_Languages.pps Programming.pps  Operating-Systems.pps  Levels of OS Sheets  Layers of software video Networks.pps Networks video	Walsh Chap 19 Systems Software  Walsh Chap 20 Operating Systems  Walsh Chap 21 Low level Machine  Program comparison sheet  Benefits/disadvantages of networks  My ideal Computer Interface
Systems 3  Hardware	Jan  To  Mar	20	Types of computer Input devices Output devices Backing Storage Devices Interfaces The CPU Binary Code Storing numbers Storing Text Storing graphics History of Computers	Powerpoint presentation  Compare backing storage speed/cost Watch hard disk working CPU emulation ASCII decode exercise Visual Basic: real/integer/string Paintshop-pro colour-depth Mindmap data storage Compare graphics file sizes  <b>Unit Test</b>	Computer_Categories.pps Web CPU.pps Input_devices.pps Output_devices.pps Backingstorage.pps Silicon Chip video Memory.pps Data_Storage_Text.pps Units of storage.pps Data_Storage_integers.pps Data_Storage_graphics.pps Digital storage video History of Computers video History of Computers.pps	Task 8 Computers for the disabled  Walsh Chap 16 Input Devices  Walsh Chap 17 Output Devices  Walsh Chap 18 Backing Storage

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GPP 1  Text Processing (Word Processing)	June  To  Sept	6	Parts of Word processor Cut/Copy/paste Format: text Format paragraph Format document Hidden Characters Tables Header/footer Spellcheck/Thesaurus Customise Mail Merge Social Implications Printers	Editing tasks  Formatting tasks   Add macro to toolbar Mail merge  <b>Printer Comparison exercise</b>  <b>November Exam</b>	Microsoft Word   Structure of Wordprocessor.pps   Secret Life of Word-Processor video	Q from past papers  Walsh Chap 1 GPP  Walsh Chap 2 Word processing
GPP 2  Data Processing- (Database)	Aug  To  Nov	20	Advantages/Disadvantages Sort Search Complex search- queries Data Types Creating a database Calculated field Forms Records Verification Validation Data Protection Act Backup	Use Volcanos database   Create own database Create form Create records  Use Sgrade database  <b>Database practical tasks</b>  <b>November Exam</b>	Microsoft Access Loss of identity video Holmes database video Panorama privacy Video  Data Validation.ppt	How many databases are you on?  Walsh Chap 4 Databases  Q from past papers
GPP 3  Numeric Processing (Spread-sheet)	Mar  To  May	20	Label Data Formula Functions (SUM, MAX, etc) Replication Charts Absolute/relative references Conditionals Lookup tables	  Create tuckshop spreadsheet   <b>Spreadsheet practical tasks</b>  <b>May Exam</b>	Microsoft Excel Bill.xls  Spreadsheets.pps   General_Purpose_packages.pps	Walsh Chap 3 Spreadsheets  Q from past papers

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Pro-gramming	Jan To Sept	30	Environment Variables and Constants Example Project Scope Input boxes Data Types Loops Internal Commentary Arrays Random numbers Conditionals	Scribble  Name loop  Pupil and subject form  Poem  Guess the Number  <b>Programming practical tasks</b>	Microsoft Visual Basic  Example programs  Programming Booklet	Q from past papers  Walsh Chap 22 Programming
Automated Systems	Aug To Oct  Prelim	20	Fixed robot arms Mobile robots Sensors Analog/digital Closed/open loop Benefits/disadvantages CAD/CAM Dedicated Systems Simulation	Program robot arm  Program mobile robot  Control Box  PowerPoint Web investigation  <b>Prelim</b>	Robotics Video  Computers in Control video  Robotics web sites	Q from past papers  Walsh Ch 14 Industrial Applications
Commercial Data Processing	Oct To Dec  Prelim	20	DP Cycle Collection and Preparation Input Validation/Verification Data processing Data storage Data Output EPOS/EFTPOS ATM Payroll	Complete PowerPoint exercise       <b>Prelim</b>	Mail Order video  Store Cards video Data processing.ppt	Q from past papers  Walsh Ch 13 CDP