

**Software Design and Development
Stage 6 Syllabus Resources**

Suggested references for syllabus topics:

The revised syllabus is able to be implemented without significant change in the level of resources. Below is a list of texts and resources currently used in schools, together with some additional resources, all linked to topics in the revised syllabus. The list may assist schools which elect to supplement existing resources.

Content	Resource	Comment
Preliminary Course		
8.1 Concepts and issues in the Design and Development of Software	Morten, R, <i>Computing Studies – Preliminary</i> , Thomas Nelson Australia, 1994 ISBN 0 17 009043 4	This book is of use in 8.1 and 8.2
	Sommerville, I, <i>Software Engineering</i> , Addison Wesley, 1995 ISBN 0 201 427 656	This is a solid text on the theory of software engineering including ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance, and standards
	Bear, G, <i>Computers in Your Life</i> , Hawker Brownlow Ed. Series, 1986 ISBN 9996974715	Social Issues
	Shaw, P, <i>Managing Legal and Security Risks in Computing Communications</i> Butterworth & Heinmann, 1998 ISBN 6000029136	This resource deals with intellectual property rights, copyright, and crime
	Forester, T & Morrison, P, <i>Computer Ethics</i> , MIT Press, 1993 ISBN 0 262 560 739	This book contains a basic chapter on piracy and software copyright, and the ethical issues involved

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	Laudon, K & Laudon, J, <i>Management Information Systems: New Approaches to Organisation and Technology</i> , Prentice-Hall, 1998 ISBN 0 13 857723 4	This is an excellent text for discussion of intellectual property, social and ethical issues, viruses, quality assurance, reverse engineering, methods of implementation, CASE tools, prototyping, outsourcing, and end-user approach
	Preece, J (ed), <i>A Guide to Useability: Human Factors in Computing</i> , Addison-Wesley, 1993 ISBN 0 201 62768 X	This is a useful reference for human-computer interaction. It covers ergonomic issues, prototyping, user-interface development, documentation, software development approaches including CASE tools, rapid approaches, and evaluation of software solutions
	Morten, R, <i>Computing Studies – Preliminary</i> , Thomas Nelson Australia, 1994 ISBN 0 17 009043 4	This resource adequately covers hardware, software and their relationship, and elements of a computer system. It also gives basic cover of social and ethical issues and introduction to algorithms
	Chivers, B, Lawrence, E, Regan, N & Ware, P, <i>Computing Studies – Preliminary</i> , Jacaranda, 1995 ISBN 0 7016 3280 1	This text provides satisfactory cover of hardware, software and their relationship, and elements of a computer system. As with the previous two texts it also provides basic cover of social and ethical issues and introduction to algorithms
	Boyd, G S, <i>HSC Preliminary</i> , Cockatoo Press, 1994 ISBN 0646165844	Similar to the above text, this resource provides adequate cover of hardware, software and their relationship, elements of a computer system and gives basic cover of social and ethical issues and introduction to algorithms
	Powers, G K, <i>Senior Computing Studies - Preliminary Course</i> , Rigby Heinemann, 1995 ISBN 0 85859 742 X	This text provides adequate cover of hardware, software and their relationship, and elements of a computer system. It also provides basic cover of social and ethical issues and introduction to algorithms

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	Fowler, A, <i>Senior Computing Studies 3 Unit Additional</i> , Rugby Heinemann, 1996 ISBN 0 85859 834 5	A fair reference for some software development, data structures, building software solutions, test data, system representation, planning, designing solutions and implementation, testing, and documentation
	Preece, J (ed), <i>Human-Computer Interaction</i> , Addison-Wesley, 1994 ISBN 0 201 62769 8	This text is an in-depth version of the above reference. It is useful for software development approaches (structured, prototyping, end-user approach), it covers user's perspective and modelling and it also contains substantial work on interface design
	Cotterell, M & Hughes, R, <i>Software Project Management</i> , Thomson, 1995 ISBN 1 85032 190 6	This is a very good reference for prototyping, implementing projects, project management techniques, project documentation, software development approaches and quality assurance
	Whitten, J L & Bentley, L D, <i>Systems Analysis and Design Methods</i> , Richard Irwin, 1997 ISBN 0 02 5619 906X	This is a very useful text covering prototyping in depth, user interface design, project management techniques, software development approaches, modelling, maintenance of software solutions, testing solutions and benchmarking
	Laudon, K & Laudon, J, <i>Management Information Systems: New Approaches to Organisation and Technology</i> , Prentice-Hall, 1998 ISBN 0 13 857723 4	This is an excellent text for discussion of intellectual property, social and ethical issues, viruses, quality assurance, reverse engineering, methods of implementation, CASE tools, prototyping, outsourcing, and end-user approach
	Alter, S, <i>Information Systems: A Management Perspective</i> , Addison-Wesley, 1998 ISBN 0 201 35109 9	This resource is very strong on software development approaches including; prototyping and end-user approaches, the use of CASE tools and the evolution of programming languages

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	Kendall, Kenneth E & Kendall, Julie E, <i>System Analysis and Design</i> , Prentice Hall, 1998 ISBN 013954934	This book deals with software process, prototyping, system design tools, interface design, quality assurance, re-engineering, and documentation
	Meyer, M & Baber, R, <i>Computers In Your Future</i> , QUE, 1996 ISBN 1575769417	This text deals with software development methods, algorithm design, data structures, CASE, and RAPID development methods
	Pressman, Roger S, <i>Software Engineering – A Practitioners Approach</i> , McGraw Hill, 1996 ISBN 0070521824	This textbook has a thorough section on re-engineering, case tools and Rapid approach to development and also addresses project management, design concepts, and testing methods
	Hawryszkiewicz, I, <i>Introduction to System Analysis and Design</i> , 2 nd edn, Prentice Hall, 1991 ISBN 013488941X	This text contains a thorough study of the process of development-modeling, design tools, prototyping, project management, and quality assurance
8.2 Introduction to Software Development	Morten, R, <i>Computing Studies – Preliminary</i> , Thomas Nelson Australia, 1994 ISBN 0 17 009043 4	This book is of use in 8.1 and 8.2
	Chivers, B et al, <i>Computing Studies – Preliminary</i> , Jacaranda, 1995 ISBN 0 7016 3280 1	Similar to above, this text contains a basic discussion on social and ethical issues and hardware/software
	Fowler, A, <i>Senior Computing Studies — 3 Unit Additional</i> , Rugby Heinemann, 1996 ISBN 0 85859 834 5	A fair reference for some software development, data structures, building software solutions, test data, system representation, planning, designing solutions and implementation, testing, and documentation
	Stubbs, D F & Webre, N W, <i>Data Structures With Abstract Data Types and Pascal</i> , Brooks/Cole Publishing Company, 1989 ISBN 0 534 03819 0	Data structures

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	Meyer, M & Baber, R, <i>Computers In Your Future</i> , QUE, 1996 ISBN 1575769417	This text deals with software development methods, algorithm design, data structures, CASE, and RAPID development methods
	Juliff, P L, <i>Program Design</i> , Prentice Hall, Out of Print ASIN 0137289162	This easy to read text addresses algorithms, documentation, testing, data structures, array processing and standards of algorithm design.
	Brookshear, J Glenn, <i>Computer Science: An Overview</i> , Addison-Wesley, 1996 ISBN 0805346325	This text provides a good overview of the theory and practice of programming: data structures, algorithms, binary data, logic and contains a brief section on software engineering process
	Dale, C & Hopkinson, C, <i>Information Systems – Structure and Design</i> , VCTA Publishing Pty Ltd, Collingwood, 1994, (Out of Print) ISBN 0 86859 430 X	This is a reasonable reference for data structures, algorithm development and design tools, history of programming languages, logic gates etc
	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Harlow: Longman, UK, 1991 ISBN 0 273 02982 7	This book is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of hardware
	Goldschlager, L, Lister, A & Lister, T R, <i>Computer Science – A Modern Introduction</i> , Prentice Hall, 1988 ISBN 0 13 165945 6	This text includes system representation, planning and design of software solutions. It also provides in depth cover of data types, abstraction, algorithms, translation and meta-languages
	Sommerville, I, <i>Software Engineering</i> , Addison Wesley, 1995 ISBN 0 201 427 656	This is a solid text on the theory of software engineering including: ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance and standards

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	Woodhouse, D, Johnstone, G, McDougall, A, <i>Computer Science</i> , John Wiley & Sons, Brisbane, 1982 ISBN 0 471 333 891	This text contains a fair discussion of data types, algorithms, test data and the early evolution of programming, but it is too outdated to have the most recent information
	Sebesta, R, <i>Concepts of Programming Languages</i> , Addison Wesley, 1996 ISBN 0 8053 7133 8	This is an in-depth book on the theory and structure of languages. It covers system representation, data structures, building software solutions and the evolution of programming
	Appleby, D, <i>Programming Languages Paradigm & Practice</i> , McGraw Hill, 1991 ISBN 0 07 100971 X	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Lings, Brian, <i>Information Structures</i> , Chapman & Hall, 1985 ISBN 0 412 265000 1	This is an in-depth reference on data types and structures, with specific examples in Pascal, and sorting techniques
	Messing, J, <i>Computing Studies 3 Unit</i> , J Messing, Wagga Wagga, NSW, 1995 ISBN 1875177027	This text adequately covers the theory of software development including data types, algorithms, test data, system representation and implementation
	Attwood, J, Morten, R, Deeley, R & Schwarz, S, <i>Computing Studies HSC 2/3 Unit Common</i> , Nelson, 1996 ISBN 0 17 009067 1	This book covers simple data structures and planning, design, writing of algorithms and system representation tools. It also contains a useful chapter on Computing Technologies for the 9.4.2 option
	Boyd, G S, <i>Computing Studies 2 Unit HSC Course</i> , Cockatoo Computing, 1994 ISBN 0 646 18932 8	This resource covers simple data structures and planning, design, writing of algorithms and system representation tools. It also has a useful chapter on Computing Technologies

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	Sharkey, G, Chopping, E, <i>Senior Computing Studies</i> , Heinemann, 1995 ISBN 0 85859 637 7	As with the earlier two unit texts, this book covers simple data structures, planning, design, and writing of algorithms and system representation tools. It also has a useful chapter on Computing Technologies for 9.4.2 - option
	Range, John, <i>Computing Studies Volume 2</i> , Grevillea Books, 1993 ISBN 0 9587 478 57	This text is useful for algorithm writing and search/sort/array processing
	Messing, J, <i>The Programming Process</i> , J Messing, Wagga Wagga, NSW, 1994 ISBN 1875177019	This is a good algorithm design text
	Robertson, L A, <i>Simple Program Design</i> , 2 nd edn, Boyd & Fraser Publishing Company, 1994 ISBN 0 877 092 834	As with the previous reference, this text is strong on algorithm design, some array, search and sort processes
	Fitzgerald, M, Schwarz, S & Traverne, T, <i>Instant Lessons in Computing Studies Algorithms and Programming Book 1 & 2</i> , Emerald City Books, 1997 ISBN 1 876133 20 1 ISBN 1 876133 21 X	This book contains good worksheets for programming paradigms, algorithms, array processing, meta languages, system representation and test data
	Powers, G K, <i>Senior Computing Studies — Preliminary Course</i> , Rigby Heinemann, 1995 ISBN 0 85859 742 X	This text provides adequate cover of hardware, software and their relationship and elements of a computer system. It also provides basic cover of social and ethical issues and introduction to algorithms

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	Goldschlager, L, Lister, A & Lister, T R, <i>Computer Science — A Modern Introduction</i> , Prentice Hall, 1988 ISBN 0 13 165945 6	This text includes system representation, planning, and design of software solutions. It also provides in depth cover of data types, abstraction, algorithms, translation, and meta-languages
	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Harlow: Longman, UK, 1991 ISBN 0 273 02982 7	This book is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of hardware
	Gries, David, <i>The Science of Programming</i> , Springer Verlag, 1987 ISBN 0 387 96480 0	Theory of programming
	Kendall, Kenneth E & Kendall, Julie E, <i>System Analysis and Design</i> , Prentice Hall, 1998 ISBN 013954934	This book deals with software process, prototyping, system design tools, interface design, quality assurance, re-engineering, and documentation
	Preece, J (ed), <i>A Guide to Useability: Human Factors in Computing</i> , Addison-Wesley, 1993 ISBN 0 201 62768 X	This is a useful reference for human-computer interaction. It covers ergonomic issues, prototyping, user-interface development, documentation, software development approaches including CASE tools, rapid approaches, and evaluation of software solutions
	Whitten, J L & Bentley, L D, <i>Systems Analysis and Design Methods</i> , Richard Irwin, 1997 ISBN 0 02 5619 906X	This is a very useful text covering prototyping in depth, user interface design, project management techniques, software development approaches, modelling, maintenance of software solutions, testing solutions and benchmarking

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	Juliff, P L, <i>Program Design</i> , Prentice Hall, Out of Print ASIN 0137289162	This easy-to-read text addresses algorithms, documentation, testing, data structures, array processing, and standards of algorithm design.
	Powers, G K, <i>Senior Computing Studies – Preliminary</i> , Rigby Heinemann, 1995 ISBN 0 85859 742 X	This resource only provides adequate cover for 8.2 and part of 8.1 as in the old 2 unit course ie social/ethical issues, hardware and software functions, elements.
8.3 Developing Software Solutions	Meyer, M & Baber, R, <i>Computers In Your Future</i> , QUE, 1996 ISBN 1575769417	This text deals with software development methods, algorithm design, data structures, CASE, and RAPID development methods
	Overton, Rodney, <i>Some Australian Management Tools</i> , Mertin Management, Adelaide, 1995 ISBN 0 646 165 445	Project management
	Trott, P, <i>Innovative Management and New product Development</i> , Pitman Publishing, 1998 ISBN 0 273 63111 X	Project management
	Sallis, P, Tate, G & MacDonell, S, <i>Software Engineering: practice, management, improvement</i> , Addison–Wesley, 1995 ISBN 0201539594	This text addresses software modelling, process management, and tools for software management
	Long, L & Long, N, <i>Computers</i> , 6 th edn, Prentice Hall, 1999 ISBN 0130962538	This text contains information on development tools, and project management

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	Humphrey, W, <i>Introduction to the Personal Software Process</i> , Addison-Wesley, 1996 ISBN 0 201 54809 7	This resource provides information on software engineering, process-planning, project management, process, defects, (quality, maintenance), and quality assurance
	Pressman, Roger S, <i>Software Engineering – A Practitioners Approach</i> , McGraw Hill, 1996 ISBN 0070521824	This textbook has a thorough section on re-engineering, case tools and Rapid approach to development and also addresses project management, design concepts, and testing methods
	Dewdney, A K, <i>Introductory Computer Science</i> , Computer Science Press, 1996 ISBN 0716782863	This is a very useful text for project ideas and class activities
	Brookshear, J Glenn, <i>Computer Science: An Overview</i> , Addison-Wesley, 1996 ISBN 0805346325	This text provides a good overview of the theory and practice of programming: data structures, algorithms, binary data, logic, and contains a brief section on software engineering process
	Hawryszkiewicz, I, <i>Introduction to System Analysis and Design</i> , 2 nd edn, Prentice Hall, 1991 ISBN 013488941X	This text contains a thorough study of the process of development-modeling, design tools, prototyping, project management, and quality assurance
	Fowler, A, <i>Senior Computing Studies – 3 Unit Additional</i> , Rugby Heinemann, 1996 ISBN 0 85859 843 5	This text is a fair reference for some software development, data structures, building software solutions, test data, system representation, planning, designing solutions and implementation, testing and documentation
	Sommerville, I, <i>Software Engineering</i> , Addison Wesley, 1995 ISBN 0 201 427 656	This text is on the theory of software engineering including ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance, and standards

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	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Longman, UK, 1991 ISBN 0 273 02982 7	This text is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of the hardware.
	Messing, J, <i>Computing Studies 3 Unit</i> , J Messing, Wagga Wagga, NSW, 1995 ISBN 1875177027	This text adequately covers the theory of software development including data types, algorithms, test data, system representation and implementation
	Sharkey, G & Chopping, E, <i>Senior Computing Studies 2/3 Unit (Common) HSC</i> , Heinemann, 1995. ISBN 0 85859 637 7	As with the earlier 2 unit texts, this book covers planning, design, and writing of algorithms
	Woodhouse, D, Johnstone, G & McDougall, A, <i>Computer Science</i> , John Wiley & Sons, Brisbane, 1982 ISBN 0 471 333 891	This text provides a fair discussion of data types, algorithms, test data and the early evolution of programming. It is too out of date to have the most recent information.
	Chivers, B et al, <i>Computing Studies – Preliminary</i> , Jacaranda, 1995 ISBN 0 7016 3280 1	Similar to above, this text contains a basic discussion on social and ethical issues and hardware/software

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	Messing, J, <i>The Programming Process</i> , J Messing, Wagga Wagga, NSW, 1994 ISBN 1875177019	A good algorithm design text
	Robertson, L A, <i>Simple Program Design</i> , 2 nd edn, Boyd & Fraser Publishing Company, 1994 ISBN 0877 092 834	As with the previous reference, this text is strong on algorithm design, some array, search, and sort processes
	Fitzgerald, M, Schwarz, S & Traverne, T, <i>Instant Lessons in Computing Studies - Algorithms and Programming Book 1</i> , Emerald City Books, 1997 ISBN 1 876133 20 1	This book contains good worksheets for programming paradigms, algorithms, array processing, meta-languages, system representation and test data
	Appleby, D, <i>Programming Languages Paradigm Practice</i> , McGraw Hill, 1991 ISBN 0 07 557 9049	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Lings, Brian, <i>Information Structures: A Uniform Approach Using Pascal</i> , Chapman & Hall, 1985 ISBN 0 412 26500 1	This text provides in-depth reference on data types and structures, with specific examples in Pascal
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HSC Course		
9.1 Development and Impact of Software Solutions	Laudon, K & Laudon, J, <i>Management Information Systems: New Approaches to Organisation and Technology</i> , Prentice-Hall, 1998 ISBN 0 13 857723 4	This is an excellent text for discussion of intellectual property, social and ethical issues, viruses, quality assurance, reverse engineering, methods of implementation CASE tools, prototyping, outsourcing, and end-user approach
	Shaw, P, <i>Managing Legal and Security Risks in Computing Communications</i> Butterworth & Heinmann, 1998 ISBN 6000029136	This resource deals with intellectual property rights, copyright, and crime
	Rakos, John, <i>Software Project Management for Small to Medium Sized Projects</i> , Prentice Hall, 1994 ISBN 0138261733	This text deals with project management, software design, testing, case tools, and prototyping
	Humphrey, W, <i>Introduction to the Personal Software Process</i> , Addison-Wesley, 1996 ISBN 0 201 54809 7	This resource provides information on software engineering, process-planning, project management, process, defects, (quality, maintenance), and quality assurance
	Kendall, Kenneth E & Kendall, Julie E, <i>System Analysis and Design</i> , Prentice Hall, 1998 ISBN 013954934	This book deals with software process, prototyping, system design tools, interface design, quality assurance, re-engineering, and documentation

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	Long, L & Long, N, <i>Computers</i> , 6 th edn, Prentice Hall, 1999 ISBN 0130962538	This text contains information on development tools, and project management
	Price Waterhouse Coopers, <i>Technology Forecast: 1999</i> , 10 th edn, Price Waterhouse Coopers Publications, 1999 Order directly from Price Waterhouse Coopers	This very up-to-date text deals with emerging technologies, development tools, groupware, and workflow management
	Sallis, P, Tate, G & MacDonell, S, <i>Software Engineering: practice, management, improvement</i> , Addison-Wesley, 1995 ISBN 0201539594	This text addresses software modelling, process management, and tools for software management
	Kendall, Kenneth E & Kendall, Julie E, <i>System Analysis and Design</i> , Prentice Hall, 1998 ISBN 013954934	This book deals with software process, prototyping, system design tools, interface design, quality assurance, re-engineering, and documentation
	Pressman, Roger S, <i>Software Engineering – A Practitioners Approach</i> , McGraw Hill, 1996 ISBN 0070521824	This textbook has a thorough section on re-engineering, case tools and Rapid approach to development and also addresses project management, design concepts, and testing methods
	Hawryszkiewicz, I, <i>Introduction to System Analysis and Design</i> , 2 nd edn, Prentice Hall, 1991 ISBN 013488941X	This text contains a thorough study of the process of development-modeling, design tools, prototyping, project management, and quality assurance

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	Preece, J (ed), <i>Human-Computer Interaction</i> , Addison-Wesley, 1994 ISBN 0 201 62769 8	This text is an in-depth version of the above reference. It is useful for software development approaches (structured, prototyping, end-user approach), it covers user's perspective, and modelling and it also contains substantial work on interface design
	Whitten, J L & Bentley, L D, <i>Systems Analysis and Design Methods</i> , Richard Irwin, 1997 ISBN 0 02 5619 906X	This is a very useful text covering prototyping in depth, user interface design, project management techniques, software development approaches, modelling, maintenance of software solutions, testing solutions and benchmarking
	Alter, S, <i>Information Systems: A Management Perspective</i> , Addison-Wesley, 1998 ISBN 0 201 35109 9	This resource is very strong on software development approaches including; prototyping and end-user approaches, the use of CASE tools and the evolution of programming languages
9.2 Software Development Cycle	Sebesta, R, <i>Concepts of Programming Languages</i> , Addison Wesley, 1996 ISBN 0 8053 7133 8	This is an in-depth book on the theory and structure of languages. It covers system representation, data structures, building software solutions and evolution of programming

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	Messing, J, <i>Computing Studies 3 Unit</i> , J Messing, Wagga Wagga, NSW, 1995 ISBN 1875177027	This text adequately covers the theory of software development including data types, algorithms, test data, system representation and implementation
	Long, L & Long, N, <i>Computers</i> , 6 th edn, Prentice Hall, 1999 ISBN 0130962538	This text contains information on development tools, and project management
	Rakos, John, <i>Software Project Management for small to medium sized projects</i> , Prentice Hall, 1994 ISBN 0138261733	This text deals with project management, software design, testing, case tools, and prototyping
	Kendall, Kenneth E & Kendall, Julie E, <i>System Analysis and Design</i> , Prentice Hall, 1998 ISBN 013954934	This book deals with software process, prototyping, system design tools, interface design, quality assurance, re-engineering, and documentation
	Hawryszkiewicz, I, <i>Introduction to System Analysis and Design</i> , 2 nd edn, Prentice Hall, 1991 ISBN 013488941X	This text contains a thorough study of the process of development-modelling, design tools, prototyping, project management, and quality assurance

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	Goldschlager, L, Lister, A & Lister, T R, <i>Computer Science – A Modern Introduction</i> , Prentice Hall, 1988 ISBN 0 13 165945 6	This textbook covers much the same areas as the first reference listed. It also includes system representation and planning, and design of software solutions. It covers some areas in more depth than the above references
	Sommerville, I, <i>Software Engineering</i> , Addison Wesley, 1995 ISBN 0 201 427 656	This is a solid text on the theory of software engineering including ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance, and standards
	Preece, J (ed), <i>Human-Computer Interaction</i> , Addison–Wesley, 1994 ISBN 0 201 62769 8	This text is useful for software development approaches (structured, prototyping, end-user approach), it covers user's perspective, and modelling and it also contains substantial work on interface design
	Fowler, A, <i>Senior Computing Studies - 3 Unit Additional</i> , Rugby Heinemann, 1996 ISBN 0 85859 834 5	A fair reference for software development (some), data structures, building software solutions, test data, system representation, planning, designing solutions and implementation, testing, and documentation
	Messing, J, <i>Computing Studies 3 Unit</i> , J Messing, Wagga Wagga, NSW, 1995 ISBN 1875177027	This text adequately covers the theory of software development including data types, algorithms, test data, system representation and implementation
	Boyd, G S, <i>Computing Studies 2 Unit HSC Course</i> , Cockatoo Computing, 1994 ISBN 0 646 18932 8	This resource covers simple data structures and planning, design, writing of algorithms, and system representation tools. It also has a useful chapter on Computing Technologies for 9.4.2 option

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Content	Resource	Comment
	Chivers, B, Lawrence, E, Regan, N & Ware, P, <i>Computing Studies 2/3 Unit Common, Jacaranda</i> , 1995 ISBN 0 7016 3265 8	This book covers simple data structures, planning, design, writing algorithms, and system representation tools. It also contains a useful chapter on Computing Technologies for 9.4.2 option
	Sharkey, G, Chopping, E, <i>Senior Computing Studies</i> , Heinemann, 1995 ISBN 0 85859 637 7	As with the earlier two-unit texts, this book covers simple data structures, planning, design and writing of algorithms, and system representation tools. It also has a useful chapter on Computing Technologies for 9.4.2 option
	Range, John, <i>Computing Studies Volume 2</i> , Grevillea Books, 1993 ISBN 0 9587 478 57	This text is useful for algorithm writing and search/sort/array processing
	Appleby, D, <i>Programming Languages Paradigm & Practice</i> , McGraw Hill, 1991 ISBN 0 07 100971 X	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Range, John, <i>Computing Studies Volume 2</i> , Grevillea Books, 1993 ISBN 0958747857	This resource is useful for algorithm writing and search/sort/array processing
	Sharkey, G & Chopping, E, <i>Senior Computing Studies 2/3 Unit (Common) HSC</i> , Heinemann, 1995. ISBN 0 85859 637 7	As with the earlier 2 unit texts, this book covers planning, design, and writing of algorithms
	Juliff, P L, <i>Program Design</i> , Prentice Hall, Out of Print ASIN 0137289162	This easy-to-read text addresses algorithms, documentation, testing, data structures, array processing, and standards of algorithm design
	Brookshear, J Glenn, <i>Computer Science: An Overview</i> , Addison-Wesley, 1996 ISBN 0805346325	This text provides a good overview of the theory and practice of programming: data structures, algorithms, binary data, logic and contains a brief section on software engineering process

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Content	Resource	Comment
	Robertson, L A, <i>Simple Program Design</i> , 2 nd edn, Boyd & Fraser Publishing Company, 1994 ISBN 0877 092 834	As with the previous reference, this text is strong on algorithm design, some array, search, and sort processes
	Appleby, D, <i>Programming Languages Paradigm Practice</i> , McGraw Hill, 1991 ISBN 0 07 557 9049	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Lings, Brian, <i>Information Structures</i> , Chapman & Hall, 1985 ISBN 0 412 265000 1	This is an in-depth reference on data types and structures, with specific examples in Pascal, and sorting techniques
	Boyd, G S, <i>Computing Studies 2 Unit HSC Course</i> , Cockatoo Computing, 1994 ISBN 0 646 18932 8	This resource covers simple data structures and planning, design, writing of algorithms, and system representation tools. It also has a useful chapter on Computing Technologies for the 9.4.2 option
	Robertson, L A, <i>Simple Program Design</i> , 2 nd edn, Boyd & Fraser Publishing Company, 1994 ISBN 0 877 092 834	As with the previous reference, this text is strong on algorithm design, some array, search, and sort processes
	Fitzgerald, M, Schwarz, S & Traverne, T, <i>Instant Lessons in Computing Studies Algorithms and Programming Book 1 & 2</i> , Emerald City Books, 1997 ISBN 1 876133 20 1 ISBN 1 876133 21 X	This book contains good worksheets for programming paradigms, algorithms, array processing, meta-languages, system representation and test data

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Content	Resource	Comment
	Appleby, D, <i>Programming Languages Paradigm & Practice</i> , McGraw Hill, 1991 ISBN 0 07 100971 X	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Kendall, Kenneth E & Kendall, Julie E, <i>System Analysis and Design</i> , Prentice Hall, 1998 ISBN 013954934	This book deals with software process, prototyping, system design tools, interface design, quality assurance, re-engineering, and documentation
	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Longman, UK, 1991 ISBN 0 273 02982 7	This text is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of the hardware.
	Messing, J, <i>Computing Studies 3 Unit</i> , J Messing, Wagga Wagga, NSW, 1995 ISBN 1875177027	This text adequately covers the theory of software development including data types, algorithms, test data, system representation and implementation
	Preece, J (ed), <i>A Guide to Useability: Human Factors in Computing</i> , Addison-Wesley, 1993 ISBN 0 201 62768 X	This is a useful reference for human-computer interaction. It covers ergonomic issues, prototyping, user-interface development, documentation, software development approaches including CASE tools, rapid approaches, and evaluation of software solutions
	Preece, J (ed), <i>Human-Computer Interaction</i> , Addison-Wesley, 1994 ISBN 0 201 62769 8	This text is an in-depth version of the above reference. It is useful for software development approaches (structured, prototyping, end-user approach), it covers user's perspective, and modelling and it also contains substantial work on interface design
	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Harlow: Longman, UK, 1991 ISBN 0 273 02982 7	This book is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of hardware

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Content	Resource	Comment
	Goldschlager, L, Lister, A & Lister, T R, <i>Computer Science — A Modern Introduction</i> , Prentice Hall, 1988 ISBN 0 13 165945 6	This text includes system representation, planning and design of software solutions. It also provides in-depth cover of data types, abstraction, algorithms, translation, and meta-languages
	Sommerville, I, <i>Software Engineering</i> , Addison Wesley, 1995 ISBN 0 201 427 656	This is a solid text on the theory of software engineering including ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance, and standards
	Messing, J, <i>Computing Studies 3 Unit</i> , J Messing, Wagga Wagga, NSW, 1995 ISBN 1875177027	This text adequately covers the theory of software development including data types, algorithms, test data, system representation and implementation
	Appleby, D, <i>Programming Languages Paradigm & Practice</i> , McGraw Hill, 1991 ISBN 0 07 100971 X	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Laudon, K & Laudon, J, <i>Management Information Systems: New Approaches to Organisation and Technology</i> , Prentice-Hall, 1998 ISBN 0 13 857723 4	This is an excellent text for discussion of intellectual property, social and ethical issues, viruses, quality assurance, reverse engineering, methods of implementation, CASE tools, prototyping, outsourcing, and end-user approach
	Rakos, John, <i>Software Project Management for small to medium sized projects</i> , Prentice Hall, 1994 ISBN 0138261733	This text deals with project management, software design, testing, case tools, and prototyping

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Content	Resource	Comment
	Juliff, P L, <i>Program Design</i> , Prentice Hall, Out of Print ASIN 0137289162	This easy-to-read text addresses algorithms, documentation, testing, data structures, array processing, and standards of algorithm design.
	Pressman, Roger S, <i>Software Engineering – A Practitioners Approach</i> , McGraw Hill, 1996 ISBN 0070521824	This textbook has a thorough section on re-engineering, case tools and Rapid approach to development and also addresses project management, design concepts, and testing methods
	Cotterell, M & Hughes, R, <i>Software Project Management</i> , Thomson, 1995 ISBN 1 85032 190 6	This is a very good reference for prototyping, implementing projects, project management techniques, project documentation, software development approaches and quality assurance
	Whitten, J L & Bentley, L D, <i>Systems Analysis and Design Methods</i> , Richard Irwin, 1997 ISBN 0 02 5619 906X	This is a very useful text covering prototyping in depth, user interface design, project management techniques, software development approaches, modelling, maintenance of software solutions, testing solutions and benchmarking
9.3 Developing a Solution Package	Goldschlager, L, Lister, A & Lister, T R, <i>Computer Science – A Modern Introduction</i> , Prentice Hall, 1988 ISBN 0 13 165945 6	This textbook covers system representation, planning and design of software solutions, data types, abstraction and meta-languages. It covers some areas in more depth than other references
	Sommerville, I, <i>Software Engineering</i> , Addison Wesley, 1995 ISBN 0 201 427 656	This is a solid text on the theory of software engineering including: ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance, and standards

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Content	Resource	Comment
9.4 Options		
9.4.1 Option 1 Evolution of Programming Languages	Fowler, A, <i>Senior Computing Studies - 3 Unit Additional</i> , Rugby Heinemann, 1996 ISBN 0 85859 834 5	A fair reference for software development (some), data structures, building software solutions, test data, system representation, planning, designing solutions and implementation, testing, and documentation
	Sebesta, R, <i>Concepts of Programming Languages</i> , Addison Wesley, 1996 ISBN 0 8053 7133 8	This is an in-depth book on the theory and structure of languages. It covers system representation, data structures, building software solutions and evolution of programming
	Woodhouse, D, Johnstone, G, McDougall, A, <i>Computer Science</i> , John Wiley & Sons, Brisbane, 1982 ISBN 0 471 333 891	This text contains a fair discussion of data types, algorithms, test data and the early evolution of programming, although it is too out of date to have the most recent information
	Meyer, M & Baber, R, <i>Computers In Your Future</i> , QUE, 1996 ISBN 1575769417	This text deals with software development methods, algorithm design, data structures, CASE, and RAPID development methods
	Appleby, D, <i>Programming Languages Paradigm Practice</i> , McGraw Hill, 1991 ISBN 0 07 557 9049	This book handles languages, data types and abstraction. Its strong point is the historical development of languages.
	Alter, S, <i>Information Systems: A Management Perspective</i> , Addison-Wesley, 1998 ISBN 0 201 35109 9	This resource is very strong on software development approaches including prototyping and end-user approaches, the use of CASE tools and the evolution of programming languages

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Content	Resource	Comment
	<p>Fitzgerald, M, Schwarz, S & Traverne, T, <i>Instant Lessons in Computing Studies — Algorithms and Programming Book 1</i>, Emerald City Books, 1997 ISBN 1 876133 20 1</p>	<p>This book contains good worksheets for programming paradigms, algorithms, array processing, meta-languages system representation and test data</p>
	<p>Dale, C & Hopkinson, C, <i>Information Systems – Structure and Design</i>, VCTA Publishing Pty Ltd, Collingwood, 1994, Out of Print ISBN 0 86859 430 X</p>	<p>This is a reasonable reference for data structures, algorithm development and design tools, history of programming languages, and logic gates etc</p>
	<p>Appleby, D, <i>Programming Languages Paradigm & Practice</i>, McGraw Hill, 1991 ISBN 0 07 100971 X</p>	<p>This book handles languages, data types and abstraction. Its strong point is the historical development of languages.</p>
	<p>Sommerville, I, <i>Software Engineering</i>, Addison Wesley, 1995 ISBN 0 201 427 656</p>	<p>This is a solid text on the theory of software engineering including ergonomics, system modelling, prototyping, data types, software design, user interfaces, CASE tools, testing, project planning, maintenance, and standards</p>
	<p>Goldschlager, L, Lister, A & Lister, T R, <i>Computer Science — A Modern Introduction</i>, Prentice Hall, 1988 ISBN 0 13 165945 6</p>	<p>This text includes system representation, planning, and design of software solutions. It also provides in-depth cover of data types, abstraction, algorithms, translation, and meta-languages</p>

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Content	Resource	Comment
	Dale, C & Hopkinson, C, <i>Information Systems – Structure and Design</i> , VCTA Publishing Pty Ltd, Collingwood, 1994, Out of Print ISBN 0 86859 430 X	This is a reasonable reference for data structures, algorithm development and design tools, history of programming languages and logic gates etc
	Brookshear, J Glenn, <i>Computer Science: An Overview</i> , Addison-Wesley, 1996 ISBN 0805346325	This text provides a good overview of the theory and practice of programming — data structures, algorithms, binary data, logic, and contains a brief section on software engineering process
	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Longman, UK, 1991 ISBN 0 273 02982 7	This text is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of the hardware.
	Chivers, B, Lawrence, E, Regan, N & Ware, P, <i>Computing Studies 2/3 Unit Common, Jacaranda</i> , 1995 ISBN 0 7016 3265 8	This text contains a brief discussion of algorithms and data types as required in the old 2 unit course. It also has a useful Computing Technologies chapter for the 9.4.2 option.
	Boyd, G S, <i>Computing Studies 2 Unit HSC Course</i> , Cockatoo Computing, 1994 ISBN 0 646 18932 8	This resource covers simple data structures and planning, design, writing of algorithms, and system representation tools. It also has a useful chapter on Computing Technologies for the 9.4.2 option
9.4.2 Option 2 The Software Developer's View of the Hardware	Mano, M Morris, <i>Digital Design</i> , Prentice Hall, 1991 ISBN 0 13 212325 8	Logic Gates etc

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Content	Resource	Comment
	Attwood, J, Morten, R, Deeley, R & Schwarz, S, <i>Computing Studies HSC 2/3 Unit Common</i> , Nelson, 1996 ISBN 0 17 009067 1	This text has a useful chapter on Computing Technologies
	Dale, C & Hopkinson, C, <i>Information Systems – Structure and Design</i> , VCTA Publishing Pty Ltd, Collingwood, 1994, Out of Print ISBN 0 86859 430 X	This is a reasonable reference for data structures, algorithm development and design tools, history of programming languages and logic gates etc
	Bale, David, <i>Computer Science: A-level and AS-level, (Longman Revise Guides)</i> , Longman, UK, 1991 ISBN 0 273 02982 7	This text is useful for data types, abstraction, algorithms, building software solutions and implementation, and the software developer's view of the hardware.
	Sharkey, G & Chopping, E, <i>Senior Computing Studies</i> , Heinemann, 1995 ISBN 0 85859 637 7	As with the earlier 2 unit texts, this book covers simple data structures, planning, design, and writing of algorithm's, and system representation tools. It also has a useful chapter on Computing Technologies for 9.4.2 option

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General references		
Content	Resource	Comment
	Peel, Geoff, <i>3GL Program Design</i> , 2 nd edn, Eastern House, TAFE, 1999 Book Number: B729178 ISBN 187588681 8	This text is useful across a number of areas of the course, including control structures, IPO charts, structure charts, as well as syntax and a series of graded exercises and solutions.
	Bailey, T E & Lundgaard, K, <i>Program Design with Pseudocode</i> , 3 rd edn, Brooks/Cole Publishing Company, 1989 ISBN 0 534 09972 6	This text is useful across a number of areas of the course, including control structures, IPO charts, structure charts, as well as syntax and a series of graded exercises and solutions.
	Payne, James, <i>Structured Programming with QuickBASIC</i> , PWS Publishing Company, 1991 ISBN 0 534 92563 4	This text is useful across a number of areas of the course, including control structures, IPO charts, structure charts, as well as syntax and a series of graded exercises and solutions.
	Schneider, David I, <i>QBASIC - with an Introduction to Visual BASIC 5.0</i> , 4 th edn, Prentice Hall, 1998, ISBN 0 13 973876 2	This text is useful across a number of areas of the course, including control structures, IPO charts, structure charts, as well as syntax and a series of graded exercises and solutions.
	Robertson, L A, <i>Simple Program Design</i> , 2 nd edn, Boyd & Fraser Publishing Company, 1994 ISBN 0 877 092 834	This text is useful across a number of areas of the course, including control structures, IPO charts, structure charts, as well as syntax and a series of graded exercises and solutions.
	Summers, Graeme, <i>Programming with Visual BASIC</i> , 2 nd edn, Melbourne: Nelson, 1998 ISBN 0 17 01011777	This text is useful across a number of areas of the course, including control structures, IPO charts, structure charts, as well as syntax and a series of graded exercises and solutions.