Contents

List of Figures and Tables	ix xi xiii xv
Preface to the First Edition	
Preface to the Second Edition	
Preface to the Third Edition	
Part A: Preparation	1
1 Research and the Research Student	3
The aim of this book	3
The structure of the book	5
What is research?	7
Some features of student research	10
Classifying research	13
The process of research	16
The successful completion of student research	18
Types of research and this book	20
The requirements to be satisfied	21
Chapter Summary	25

	Personal value of the topic	26
	Selecting a project topic	27
	Research degree topic selection in outline	27
	Appointing the supervisor	29
	Initial selection of a topic	31
	Techniques for generating research topics	34
	Feasibility of the research proposed	39
	Social value of the research	42
	Research symmetry	43
	Scope for research	44
	Developing a research proposal	45
	Chapter Summary	50
3	Planning the Research Project	51
	The need to plan	51
	Network planning	53
	An example of network planning in student research	53
	Rendering progress explicit: research milestones	68
	The role of network analysis during the execution stage	69
	Planning part-time research	70
	Chapter Summary	72
4	Literature Searching	73
	The academic library	74
	Major primary, secondary and tertiary sources	74
	Why scan the literature?	82
	Literature searches and relevance trees	83
	Citation indexes	87
	Carrying out a literature search electronically	90
	An example of an electronic literature search	91
	The web of science search	91
	Using a search engine	98
	Setting up one's own bibliography	102
	Serendipity in literature searching	105
	The roles of supervisor and librarian	105
	Using the references	106
	Chapter Summary	107

Part B: Data Analysis and Gathering	109
5 Analysing the Data	111
The role of analysis	111
Definition of analysis	113
Types of data and their place in analysis	114
The purpose of analysis	116
Proper argument and analysis	117
A review of some common purposes of analysis and applic	able
techniques	120
Testing a quantitative analysis	132
The use of the computer in analysis	135
Ensuring the analysis is of an appropriate standard	136
Chapter summary	138
6 Gathering the Data	139
Activities involved in data gathering	140
Access to data	141
Gathering data to an adequate standard	141
Preparing for data gathering	151
Organising the data	152
Collecting primary data	153
Secondary data sources	159
Chapter summary	165
Part C: Producing the Research Results	167
Part C. Producing the Research Results	107
7 Executing the Research	169
The research plan	170
Overcommitment	171
Individual problems	172
Threats to the continuation of the study	174
Serious delay	179
General support problems	180
Harassment and intimidation	182
Problems and issues in working with a supervisor	183
Conclusion	193
Chapter summary	192

8 Pr	resentation of the Research Findings	193
	Introduction	193
	Institutional guidelines	194
	Style	197
	Citation	200
	Chapters and sections	207
	Editing and proofreading	214
	Copying, printing and binding	217
	Preparing for a <i>viva voce</i> or oral examination	219
	Publishing the research	224
	Conclusion	227
	Chapter summary	228
Appe	231	
1	An Example of Topic Analysis	233
2	A Select Bibliography on Student Research	241
3	Books and Articles Cited in the Main Text	251
Indev		255