

# CONTENTS

<b>PREFACE</b> .....	<b>1</b>
<b>I MULTIMEDIA AND NEW TECHNOLOGIES: HISTORY AND DEFINITIONS</b> .....	<b>1</b>
<b>1 Introduction</b> .....	<b>1</b>
<b>2 Teaching: a short historical overview on teaching ideas</b> .....	<b>1</b>
<b>3 Multimedia and new technologies: history and definitions</b> .....	<b>4</b>
3.1 History .....	4
3.2 Definitions .....	9
3.3. Definition as it will be used further on .....	11
<b>II THE THEORY BEHIND THE SCREEN</b> .....	<b>13</b>
<b>1. Historical background: a short overview</b> .....	<b>13</b>
<b>2 Constructivism and cognitive science</b> .....	<b>16</b>
<b>3 Constructivism – applied to multimedia classes</b> .....	<b>19</b>
<b>4 Conclusion</b> .....	<b>23</b>
<b>5 DIGRESSION</b> .....	<b>26</b>
<b>III PERSPECTIVES OF USING NEW TECHNOLOGIES IN HIGHER EDUCATION</b> .....	<b>29</b>
<b>1 The Pros and Cons of teaching with multimedia applications</b> .....	<b>29</b>
1.1 Contrary opinions on teaching with multimedia .....	30
1.2 Pro-arguments for teaching with multimedia .....	34
1.3 Concluding remarks .....	37
<b>2 Media competence</b> .....	<b>38</b>
<b>3 What are the current advantages and disadvantages of multimedia teaching devices?</b> .....	<b>39</b>
<b>4 Media didactics – Or the problem of applying multimedia to higher education</b> .....	<b>42</b>
4.1 New technologies and multimedia in dispute .....	42
4.2 ‘Humanities lack new technologies’ – Examples of applied projects ..	44
4.3 Conclusion .....	45

<b>IV A PRACTICAL EXAMPLE .....</b>	<b>51</b>
<b>1 The evaluation of the field study on the acceptance of multimedia- technology in higher education over a period of three semesters .....</b>	<b>52</b>
1.1 The analysis of the acceptance of multimedia teaching devices in higher education .....	53
<b>2 'The interactive introduction to linguistics' – A pilot project at the English department of the University of Marburg 1998/1999.....</b>	<b>57</b>
2.1 THITL – the application to the curriculum.....	57
2.2 THITL – its application in class .....	58
2.3 The multimedia teaching contents of THITL.....	60
2.4 The participants of the computer course .....	65
2.5 The parallel course: conventional teaching methods and its acceptance .....	70
2.6 The acceptance at the beginning and the end of the computer courses .....	72
2.7 Constantly asked questions in questionnaires #2 to #6.....	84
<b>3 A comparison of the two teaching methods.....</b>	<b>89</b>
3.1 Problems.....	89
<b>4 Summary and conclusion .....</b>	<b>93</b>
4.1 Summary.....	93
4.2 Conclusion.....	94
<b>V IMPLICATIONS FOR THE STUDY OF ACCEPTANCE OF HIGHER EDUCATION WITH MULTIMEDIA.....</b>	<b>99</b>
<b>1 New technologies and multimedia in general.....</b>	<b>99</b>
<b>2 Other projects.....</b>	<b>101</b>
2.1 German Projects .....	102
2.2 International Projects .....	106
<b>3 Acceptance of multimedia in higher education in Germany .....</b>	<b>111</b>
3.1 Germany .....	111
3.2 International comparisons .....	122
3.3 In general.....	134
3.4 Consequences for publishers.....	137
<b>4 A vicious circle.....</b>	<b>139</b>
4.1 Need for modern education in Germany .....	139
4.2 Consequences of multimedia for employment in the German economy .....	146

<b>VI THE FUTURE: PROSPECTS AND CONCLUSION.....</b>	<b>151</b>
<b>1 Opinions, ideas and perspectives .....</b>	<b>151</b>
<b>2 Conclusion.....</b>	<b>160</b>
<b>BIBLIOGRAPHY .....</b>	<b>163</b>
<b>APPENDIX A – COURSE MATERIALS .....</b>	<b>I</b>
<b>APPENDIX B – THE QUESTIONNAIRES.....</b>	<b>XXIII</b>