

# Table of Contents

1	Introduction	7
2	ERP	8
	2.1 Definition	8
	2.2 History of ERP systems	8
	2.3 Basic elements of ERP systems	9
	2.4 ERP system architecture	10
	2.5 ERP sophisticated management	11
	2.6 Computer-integrated manufacturing	12
	2.7 Digital factories	14
3	Auxiliary works	16
	3.1 Maintenance	16
	3.1.1 Definition	16
	3.1.2 Classification of maintenance activities	16
	3.1.3 Maintenance frameworks	17
	3.1.4 Computerised maintenance managements systems	20
	3.1.5 Total integrated maintenance	21
	3.1.6 Link between maintenance and production	22
4	Methodology and targets	23
5	Pratical part	25
	5.1 Subject of analysis	25
	5.2 Presentation of the company	25
	5.3 Current situation	27
	5.4 Current maintenance situation	28
	5.5 Current maintenance cost	29
6	Systematic proposals	31
	6.1 TPM	32
	6.2 Standardisation	32
	6.3 CAS system	34
	6.4 ERP system	35
	6.5 Cost and benefit	37
7	Critical assessment of the study and its results	38
	7.1 Maintenance indicators	39
8	Generalisation of results	42
9	Summary	44
10	Resources	46
	10.1 Literature	46
	10.2 Further publications of the author	51
	List of figures	53
	Curriculum Vitae	54
	Životopis	55
	Annex - Závěr v českém jazyce	