

CONTENTS

1	COMBINATORICS	5
1.1	Basic facts	5
1.2	Examples	6
1.3	Examples solved in EXCEL.....	8
1.4	Tasks to practice	9
1.5	Test yourself.....	10
2	RANDOM EVENT	11
2.1	Basic facts	11
2.2	Examples	14
2.3	Tasks to practice	23
2.4	Test yourself.....	25
3	PROBABILITY OF A RANDOM EVENT.....	27
3.1	Basic facts	27
3.2	Examples	28
3.3	Tasks to practice	35
3.4	Test yourself.....	37
4	PROBABILITY OF COMPOUND EVENTS	39
4.1	Basic facts	39
4.2	Examples	40
4.3	Tasks to practice	51
4.4	Test yourself.....	54
5	RANDOM VARIABLE OF DISCRETE TYPE AND ITS CHARACTERISTICS.....	56
5.1	Basic facts	56
5.2	Examples	57
5.3	Tasks to practice	64
5.4	Test yourself.....	67
6	RANDOM VARIABLE OF CONTINUOUS TYPE AND ITS CHARACTERISTICS.....	69
6.1	Basic facts	69
6.2	Examples	70
6.3	Tasks to practice	77
6.4	Test yourself.....	79
7	FREQUENTLY USED PROBABILITY DISTRIBUTION	82
7.1	Basic facts	82
7.2	Examples	92
7.3	Examples solved in EXCEL.....	103
7.4	Tasks to practice	107
7.5	Test yourself.....	109

8	MULTIDIMENSIONAL RANDOM VARIABLE.....	111
8.1	Basic facts	111
8.2	Examples	116
8.3	Tasks to practice.....	134
8.4	Test yourself	137
9	FUNCTION OF RANDOM VARIABLES	138
9.1	Basics facts.....	138
9.2	Excercises	142
9.3	The excercises solved in EXCEL	149
9.4	Tasks to practice.....	151
9.5	Test yourself	152
10	STATISTIC TABLES	155