

Master's Course Results: 2018-19 to 2022-23

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Mathematics (MA) Courses

Taught Master's marks and grades

A summary of mark and grade outcomes for taught postgraduate Master's students on Mathematics (MA) courses over the last 5 years, 2018-19 to 2022-23. Results for students at other levels of study or non-award programmes are *excluded*.

Absent and Incomplete grades are *counted*, while the related zero marks are *excluded* from mark aggregates. Resit results, with capped grades and marks, are *excluded*.

Grades are based on the Taught Master's Classification schemes.

For each course, **Histograms** summarise the Agreed marks from the *most recent* year; **Barcharts** present the outcomes in grades. One filled to show the proportion of results in each grade, the other of counts in each grade. **Box-plots** simplify the distribution into quartiles, divided by the median. Notches around the median indicate the margin of error around the measure. **ecdf** (empirical cumulative distribution function) plots indicate the proportion of results up to a given mark, or mark for a given percentile.

The two tables summarise the marks and grades for all results by year.

Any comments or questions are welcome.

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Master's Course Results on Mathematics (MA) Courses, 2018/19 to 2022/23

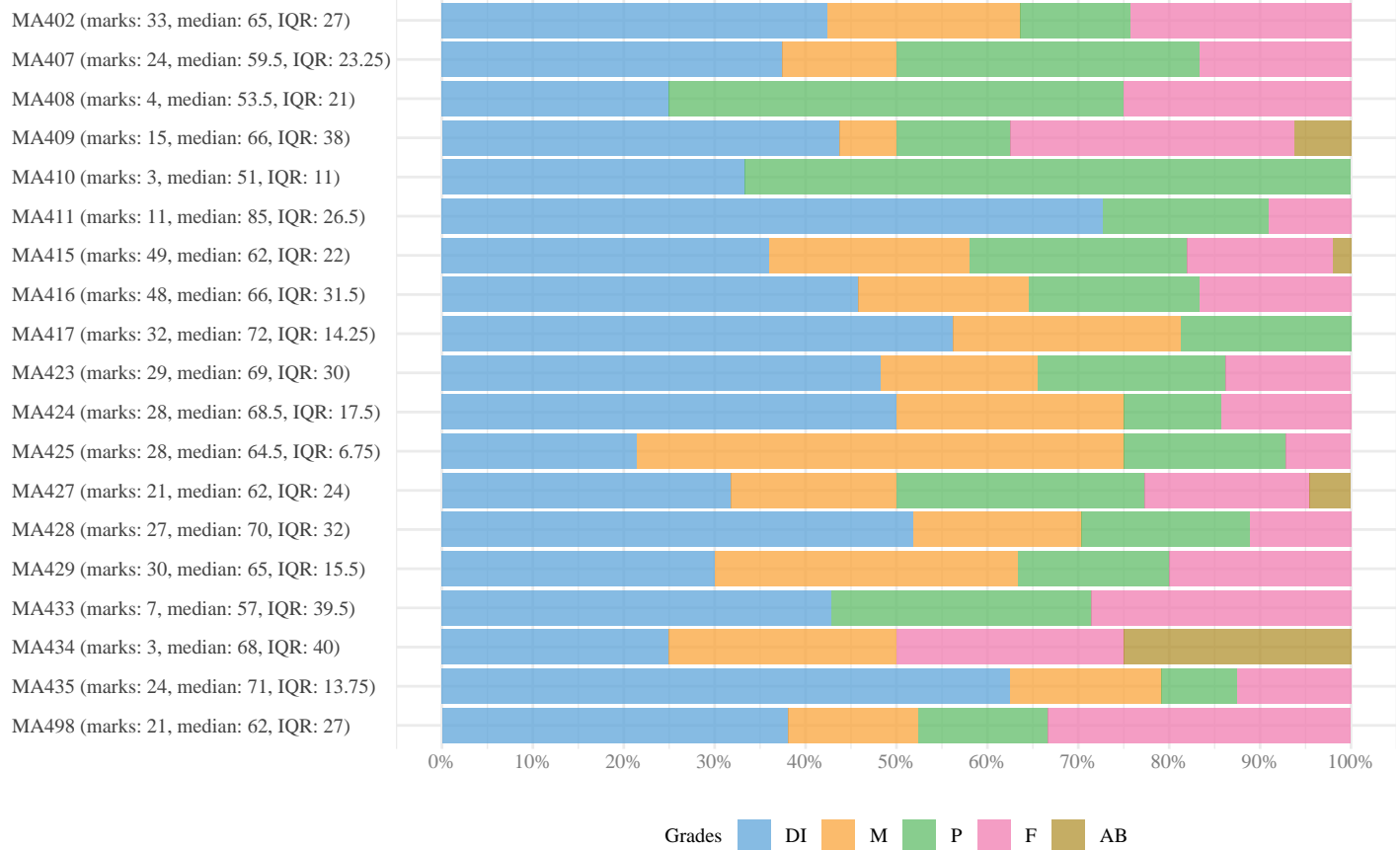
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	452	65.6	15.8	0	45.1	57.0	67.0	19.0	76.0	83.0	88.0	100
2019/20	464	72.0	16.1	0	53.0	62.0	73.0	22.0	84.0	92.0	95.0	100
2020/21	539	67.0	16.9	0	50.0	59.5	69.0	18.5	78.0	86.0	89.1	100
2021/22	501	63.8	15.6	0	50.0	54.0	64.0	19.0	73.0	84.0	88.0	100
2022/23	440	63.6	19.2	0	38.9	54.0	66.0	23.2	77.2	86.0	90.0	100

Mark summary – Mean, Standard deviation and Quantiles.

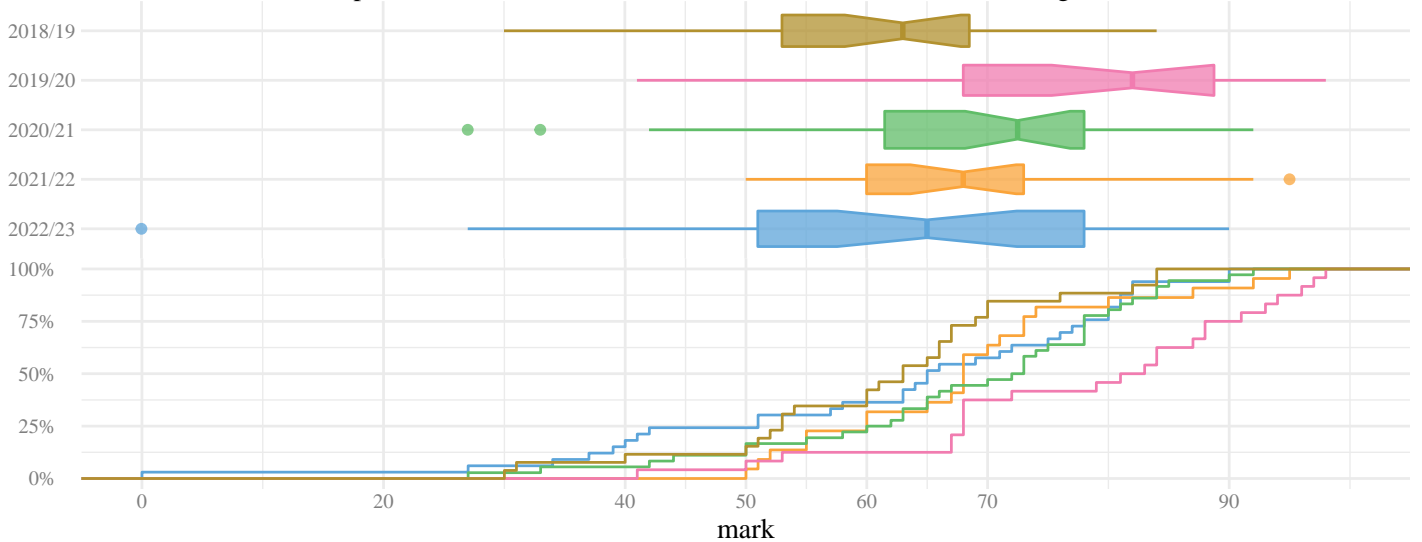
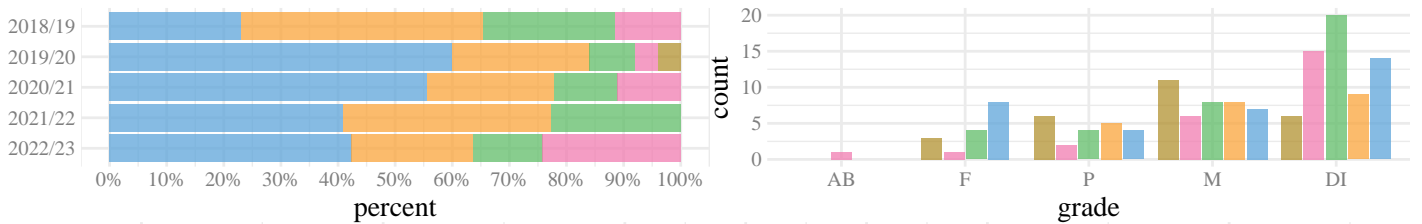
Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	454	2	51	73	120	208		0.4	11.2	16.1	26.4	45.8
2019/20	466	2	23	62	119	260		0.4	4.9	13.3	25.5	55.8
2020/21	548	9	48	87	142	262		1.6	8.8	15.9	25.9	47.8
2021/22	502	1	44	141	136	180		0.2	8.8	28.1	27.1	35.9
2022/23	444	4	72	84	93	191		0.9	16.2	18.9	20.9	43.0

Grade summary – Count and Percentage distribution (%).

Mathematics (MA) course results in 2022/23



MA402: Mathematical Game Theory



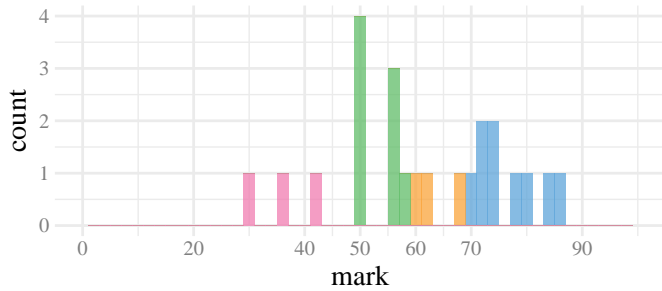
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	26	61.0	14.0	30	45.0	53.0	63.0	15.5	68.5	79.0	83.5	84
2019/20	24	77.7	15.6	41	57.2	68.0	82.0	20.8	88.8	95.4	96.8	98
2020/21	36	68.0	15.4	27	47.0	61.5	72.5	16.5	78.0	84.0	86.2	92
2021/22	22	68.3	12.4	50	52.3	60.0	68.0	13.0	73.0	86.3	91.8	95
2022/23	33	62.0	20.5	0	37.4	51.0	65.0	27.0	78.0	81.8	85.2	90

MA402: Mark summary – Mean, Standard deviation and Quantiles.

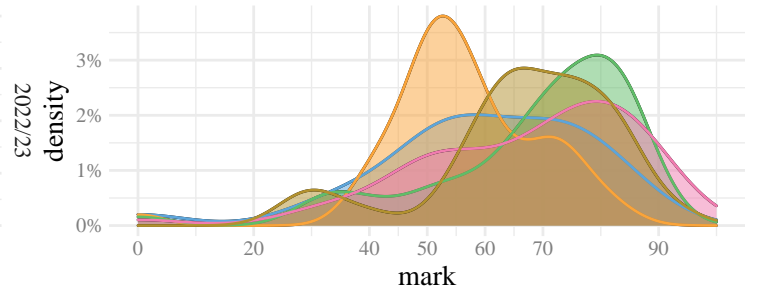
Year	results	AB	F	P	M	DI	:%	AB	F	P	M	DI
2018/19	26		3	6	11	6		11.5	23.1	42.3	23.1	
2019/20	25	1	1	2	6	15	4.0	4.0	8.0	24.0	60.0	
2020/21	36		4	4	8	20		11.1	11.1	22.2	55.6	
2021/22	22			5	8	9			22.7	36.4	40.9	
2022/23	33		8	4	7	14		24.2	12.1	21.2	42.4	

MA402: Grade summary – Count and Percentage distribution (%).

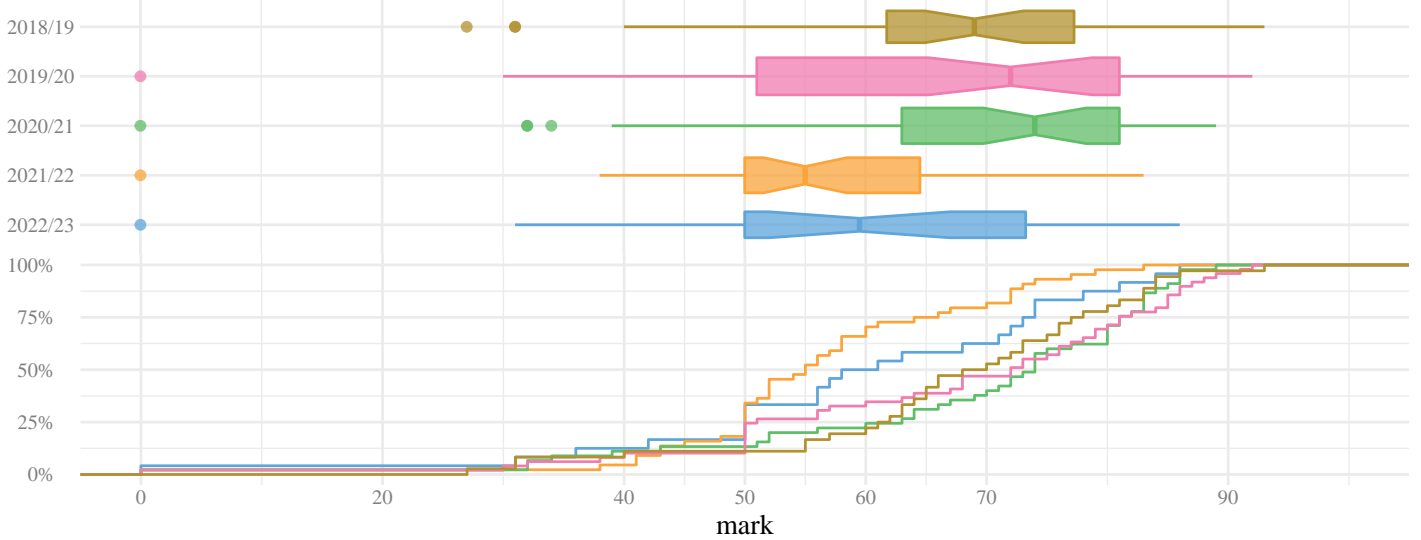
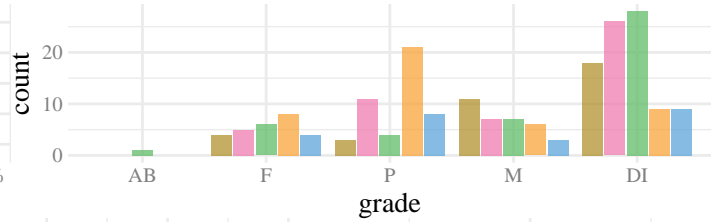
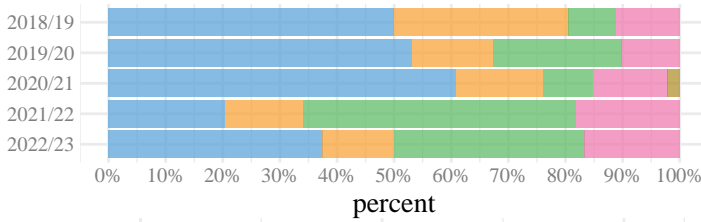
MA407: Algorithms and Computation



Grades AB F P M DI



Year 2018/19 2019/20 2020/21 2021/22 2022/23



Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	36	67.1	15.6	27	47.5	61.8	69.0	15.5	77.2	83.5	84.5	93
2019/20	49	66.9	19.1	0	48.0	51.0	72.0	30.0	81.0	86.2	88.6	92
2020/21	45	68.0	18.6	0	40.6	63.0	74.0	18.0	81.0	84.6	86.0	89
2021/22	44	56.0	14.0	0	43.0	50.0	55.0	14.5	64.5	72.7	76.5	83
2022/23	24	59.2	19.4	0	37.8	50.0	59.5	23.2	73.2	80.1	83.5	86

MA407: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	36		4	3	11	18		11.1	8.3	30.6	50.0	
2019/20	49		5	11	7	26		10.2	22.4	14.3	53.1	
2020/21	46	1	6	4	7	28	2.2	13.0	8.7	15.2	60.9	
2021/22	44		8	21	6	9		18.2	47.7	13.6	20.5	
2022/23	24		4	8	3	9		16.7	33.3	12.5	37.5	

MA407: Grade summary – Count and Percentage distribution (%).

MA408: Topics in Discrete Mathematics



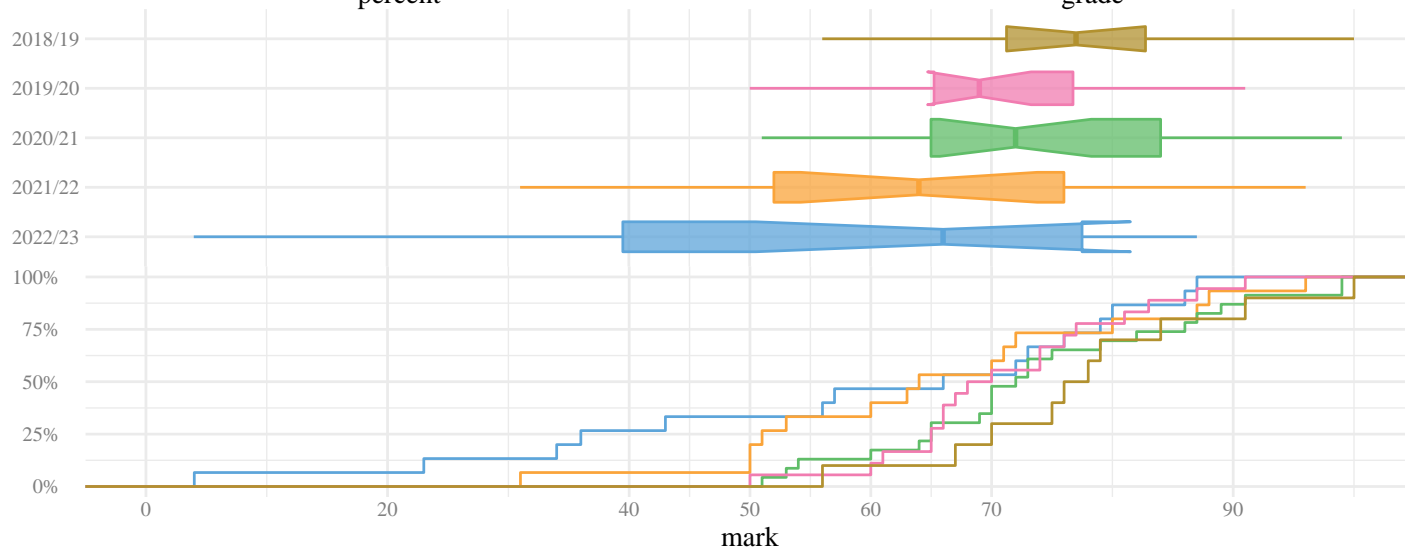
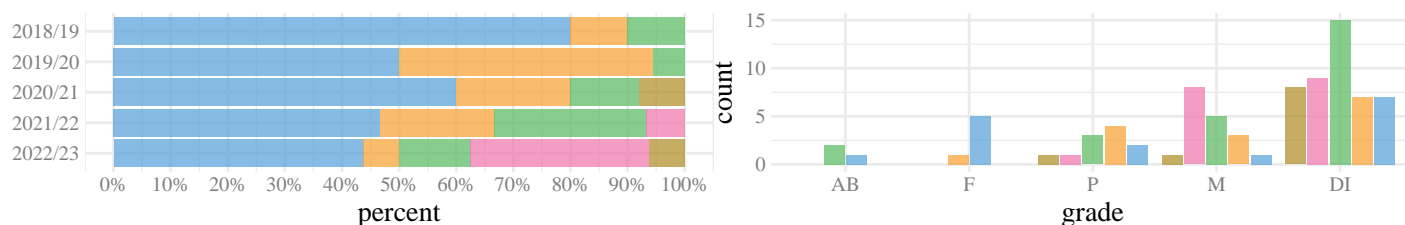
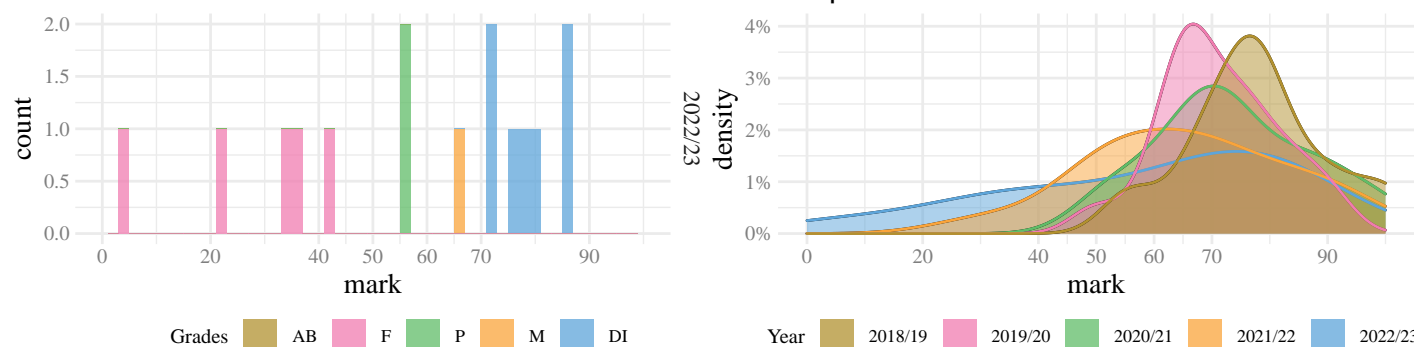
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	6	68.7	13.3	50	55.0	60.5	69.0	18.5	79.0	82.0	83.0	84
2019/20	1	0.0		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
2020/21	0											
2021/22	8	60.1	14.7	39	46.7	51.5	60.0	13.2	64.8	73.6	81.3	89
2022/23	4	47.0	33.9	0	15.9	39.8	53.5	21.0	60.8	72.9	76.9	81

MA408: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	6			1	2	3				16.7	33.3	50.0
2019/20	1		1					100.0				
2020/21	0											
2021/22	8		1	3	3	1		12.5	37.5	37.5	12.5	
2022/23	4		1	2		1		25.0	50.0		25.0	

MA408: Grade summary – Count and Percentage distribution (%).

MA409: Continuous Time Optimisation



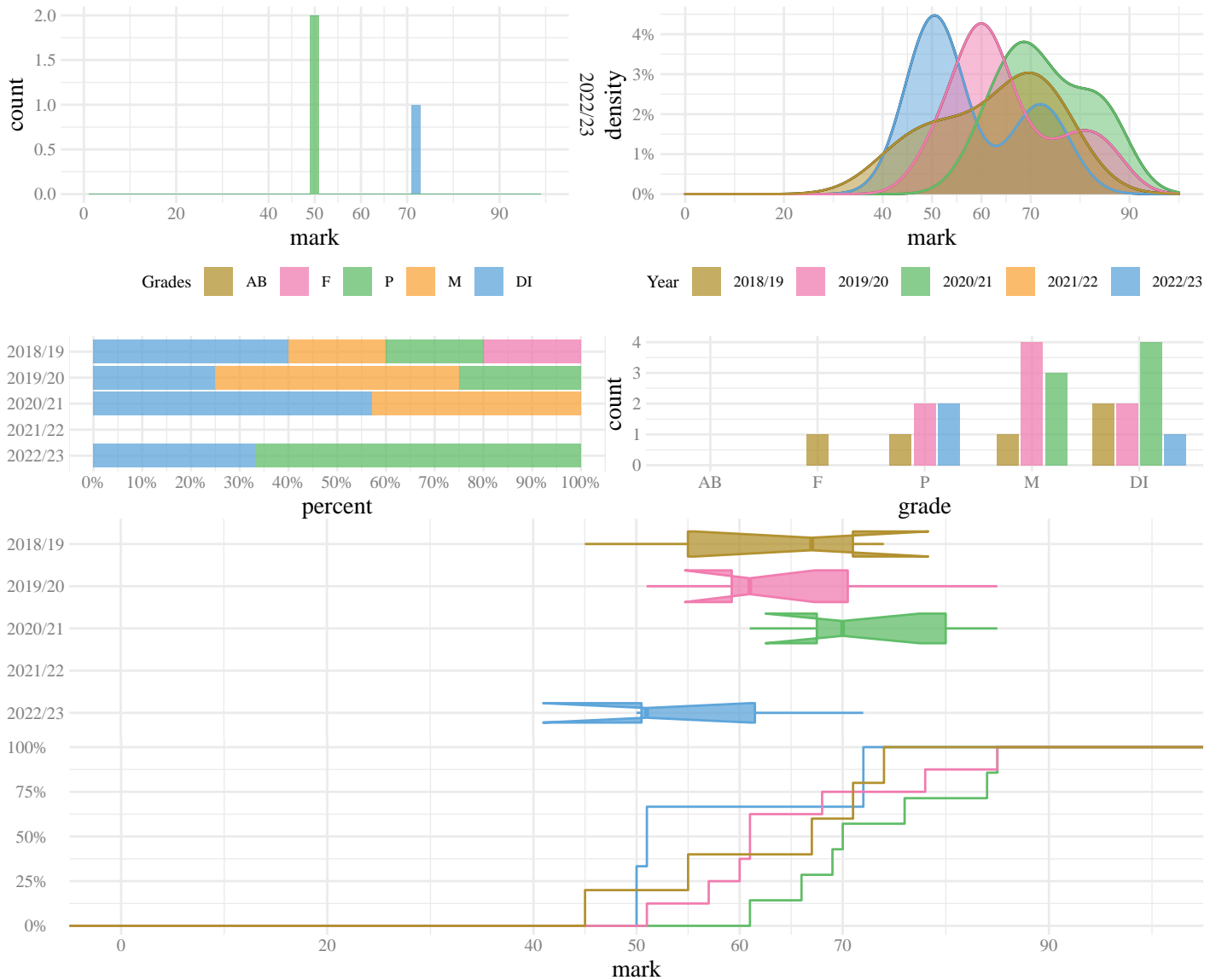
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	10	77.6	12.3	56	65.9	71.2	77.0	11.5	82.8	91.9	95.9	100
2019/20	18	71.2	10.3	50	60.7	65.2	69.0	11.5	76.8	84.2	87.6	91
2020/21	23	73.7	13.6	51	55.2	65.0	72.0	19.0	84.0	90.6	98.2	99
2021/22	15	65.7	17.5	31	50.0	52.0	64.0	24.0	76.0	87.6	90.4	96
2022/23	15	58.1	25.1	4	27.4	39.5	66.0	38.0	77.5	83.6	86.3	87

MA409: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	?:	AB	F	P	M	DI
2018/19	10			1	1	8				10.0	10.0	80.0
2019/20	18			1	8	9				5.6	44.4	50.0
2020/21	25	2		3	5	15	8.0			12.0	20.0	60.0
2021/22	15		1	4	3	7			6.7	26.7	20.0	46.7
2022/23	16	1	5	2	1	7		6.2	31.2	12.5	6.2	43.8

MA409: Grade summary – Count and Percentage distribution (%).

MA410: Information, Communication and Cryptography



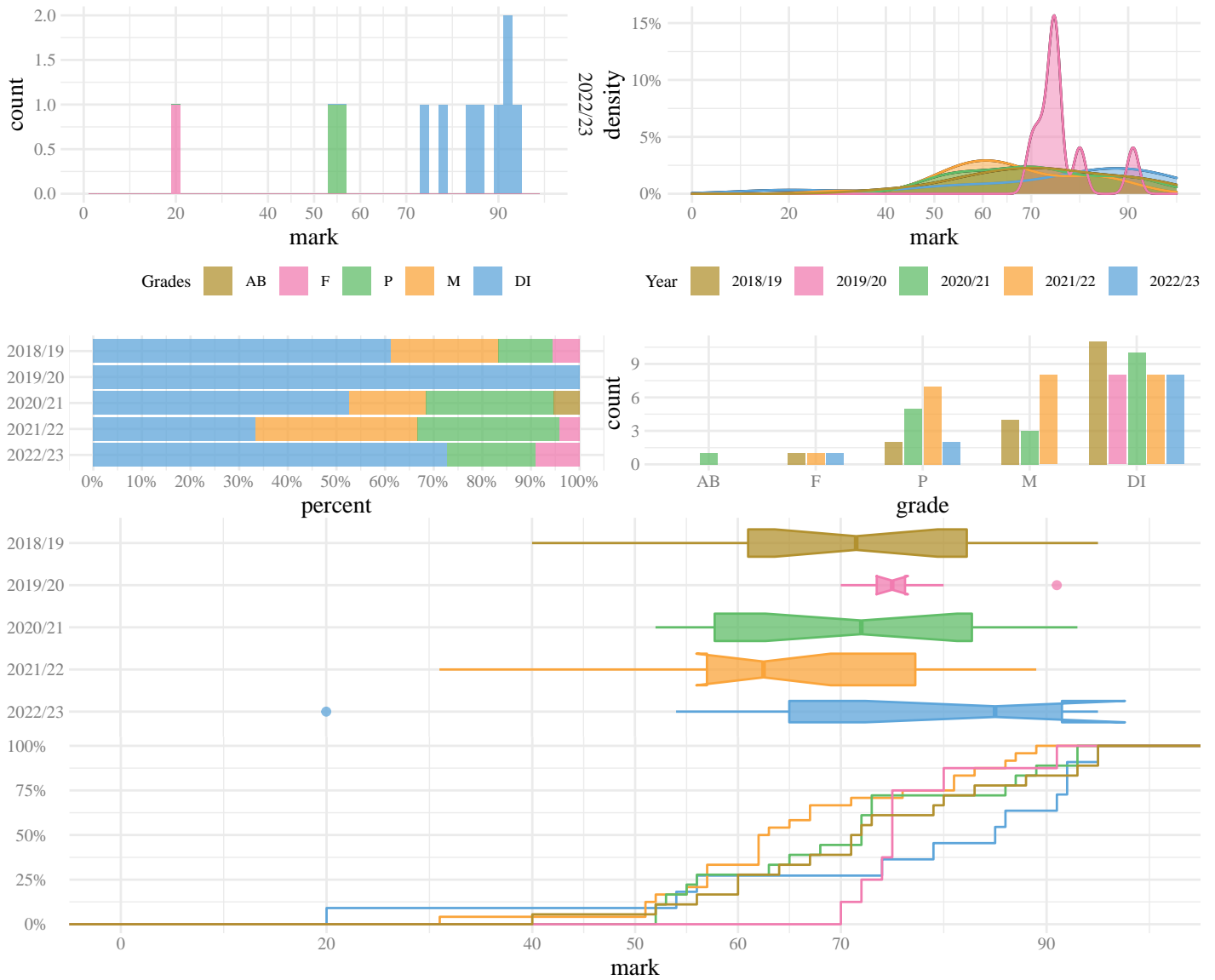
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	5	62.4	12.1	45	49.0	55.0	67.0	16.0	71.0	72.8	73.4	74
2019/20	8	65.1	11.3	51	55.2	59.2	61.0	11.2	70.5	80.1	82.5	85
2020/21	7	73.0	9.1	61	64.0	67.5	70.0	12.5	80.0	84.4	84.7	85
2021/22	0											
2022/23	3	57.7	12.4	50	50.2	50.5	51.0	11.0	61.5	67.8	69.9	72

MA410: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	5		1	1	1	2			20.0	20.0	20.0	40.0
2019/20	8			2	4	2				25.0	50.0	25.0
2020/21	7				3	4					42.9	57.1
2021/22	0											
2022/23	3			2		1				66.7		33.3

MA410: Grade summary – Count and Percentage distribution (%).

MA411: Probability and Measure



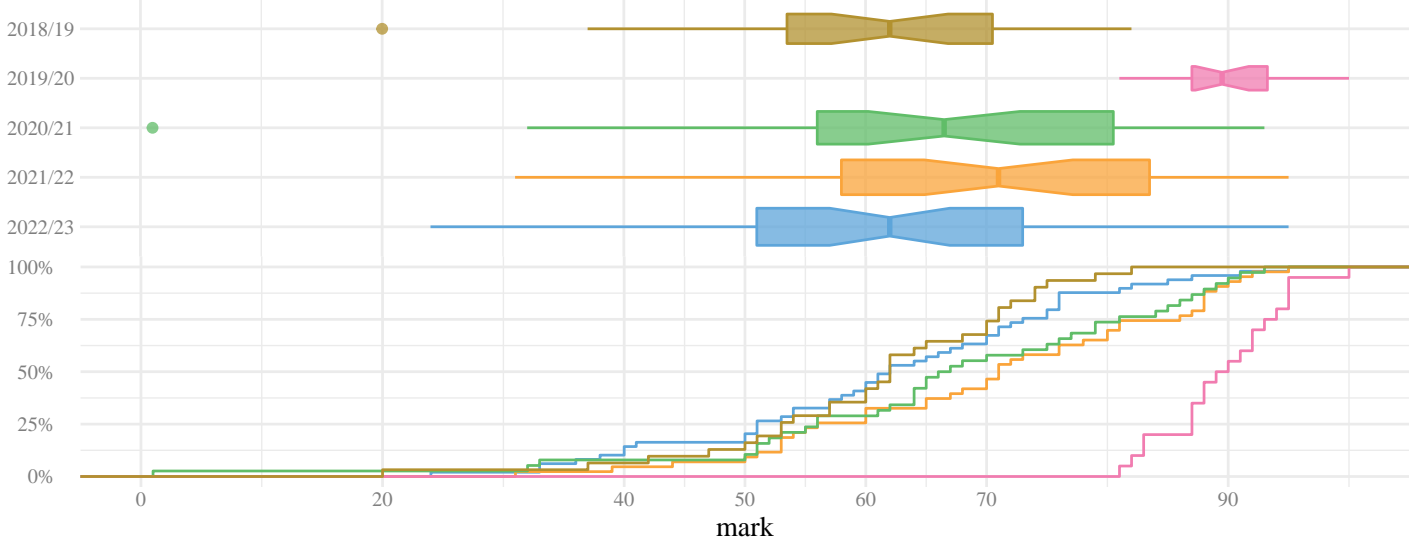
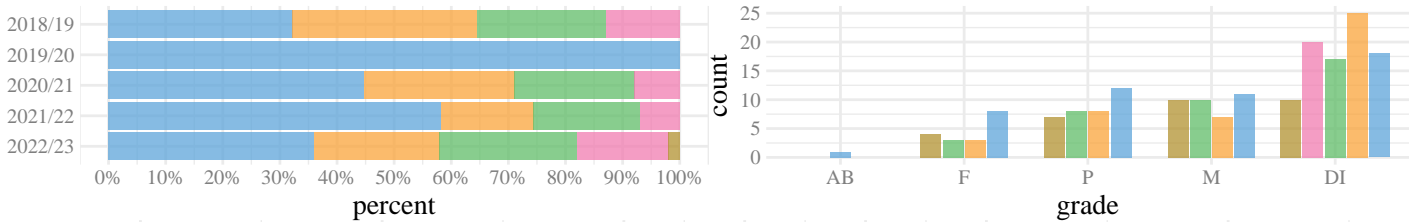
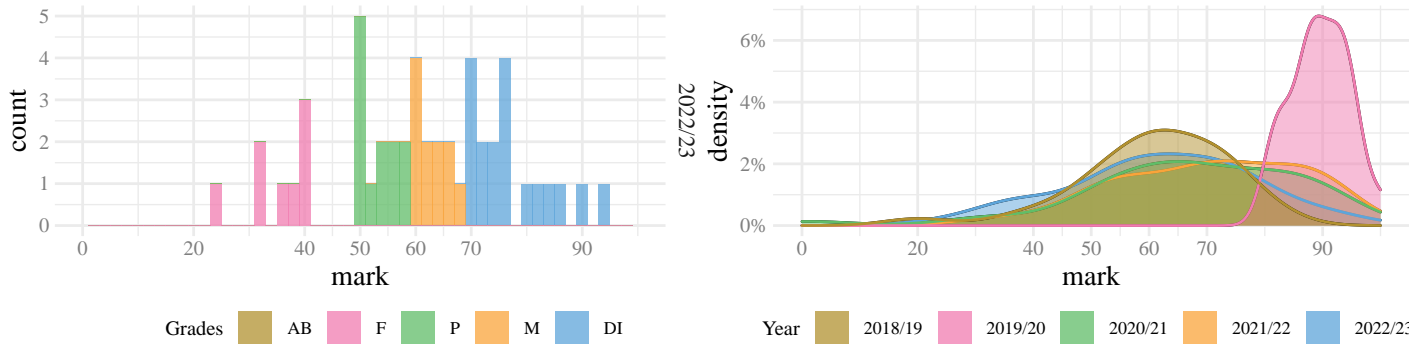
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	18	72.2	15.4	40	54.8	61.0	71.5	21.2	82.2	93.6	95.0	95
2019/20	8	76.5	6.5	70	71.4	73.5	75.0	2.8	76.2	83.3	87.1	91
2020/21	18	70.8	14.2	52	52.7	57.8	72.0	25.0	82.8	90.2	93.0	93
2021/22	24	65.6	14.1	31	51.3	57.0	62.5	20.2	77.2	85.1	86.8	89
2022/23	11	74.9	23.0	20	54.0	65.0	85.0	26.5	91.5	92.0	93.5	95

MA411: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	18		1	2	4	11		5.6	11.1	22.2	61.1	
2019/20	8					8					100.0	
2020/21	19	1		5	3	10	5.3		26.3	15.8	52.6	
2021/22	24		1	7	8	8		4.2	29.2	33.3	33.3	
2022/23	11		1	2		8		9.1	18.2		72.7	

MA411: Grade summary – Count and Percentage distribution (%).

MA415: The Mathematics of the Black and Scholes Theory



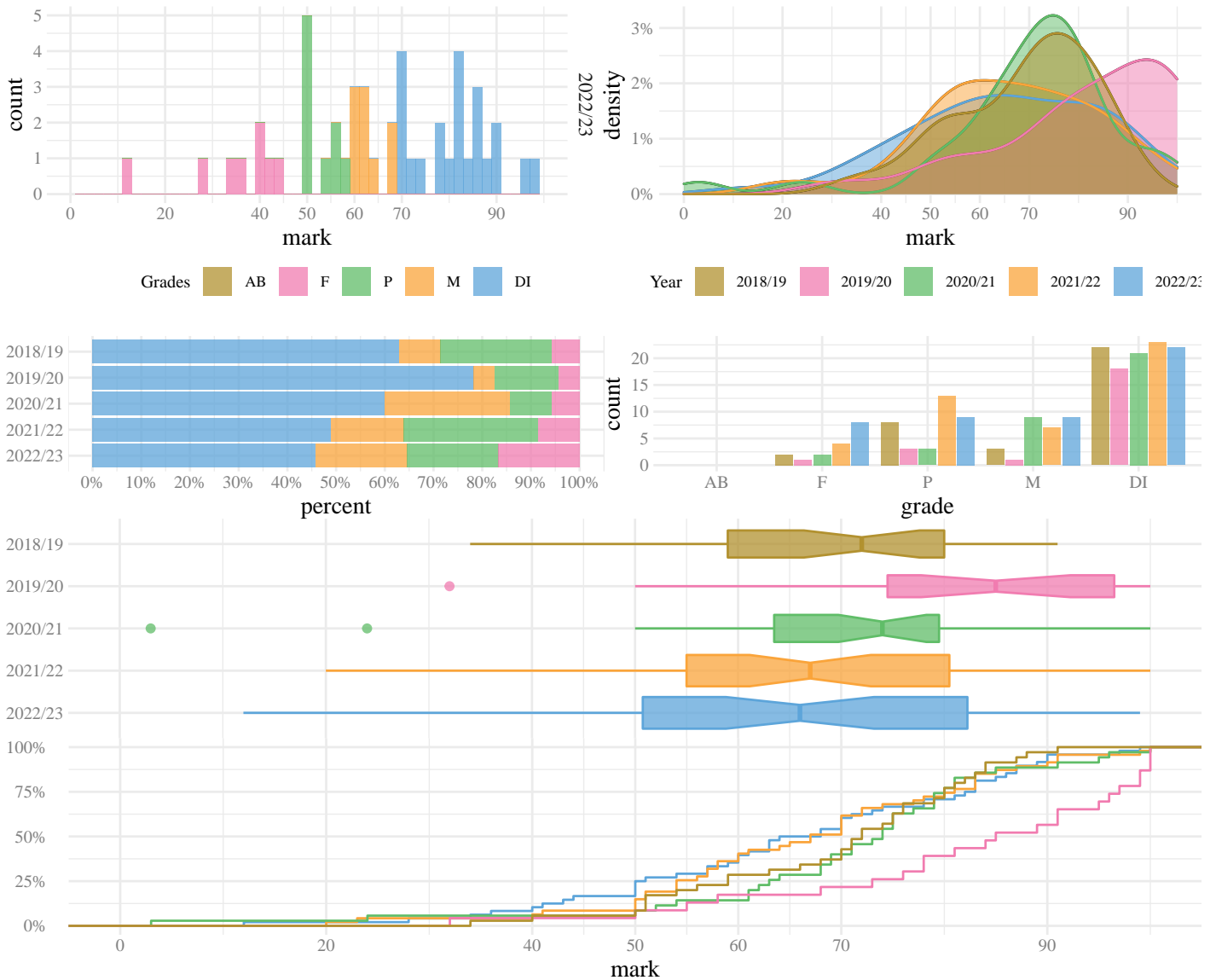
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	31	60.8	13.0	20	47.0	53.5	62.0	17.0	70.5	74.0	77.0	82
2019/20	20	89.6	5.0	81	82.9	87.0	89.5	6.2	93.2	95.0	95.2	100
2020/21	38	66.8	19.0	1	50.7	56.0	66.5	24.5	80.5	88.3	90.2	93
2021/22	43	70.1	15.9	31	51.4	58.0	71.0	25.5	83.5	88.8	90.9	95
2022/23	49	61.8	16.0	24	39.6	51.0	62.0	22.0	73.0	81.2	86.2	95

MA415: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	:%	AB	F	P	M	DI
2018/19	31		4	7	10	10			12.9	22.6	32.3	32.3
2019/20	20					20						100.0
2020/21	38		3	8	10	17			7.9	21.1	26.3	44.7
2021/22	43		3	8	7	25			7.0	18.6	16.3	58.1
2022/23	50	1	8	12	11	18		2.0	16.0	24.0	22.0	36.0

MA415: Grade summary – Count and Percentage distribution (%).

MA416: The Foundations of Interest Rate and Credit Risk Theory



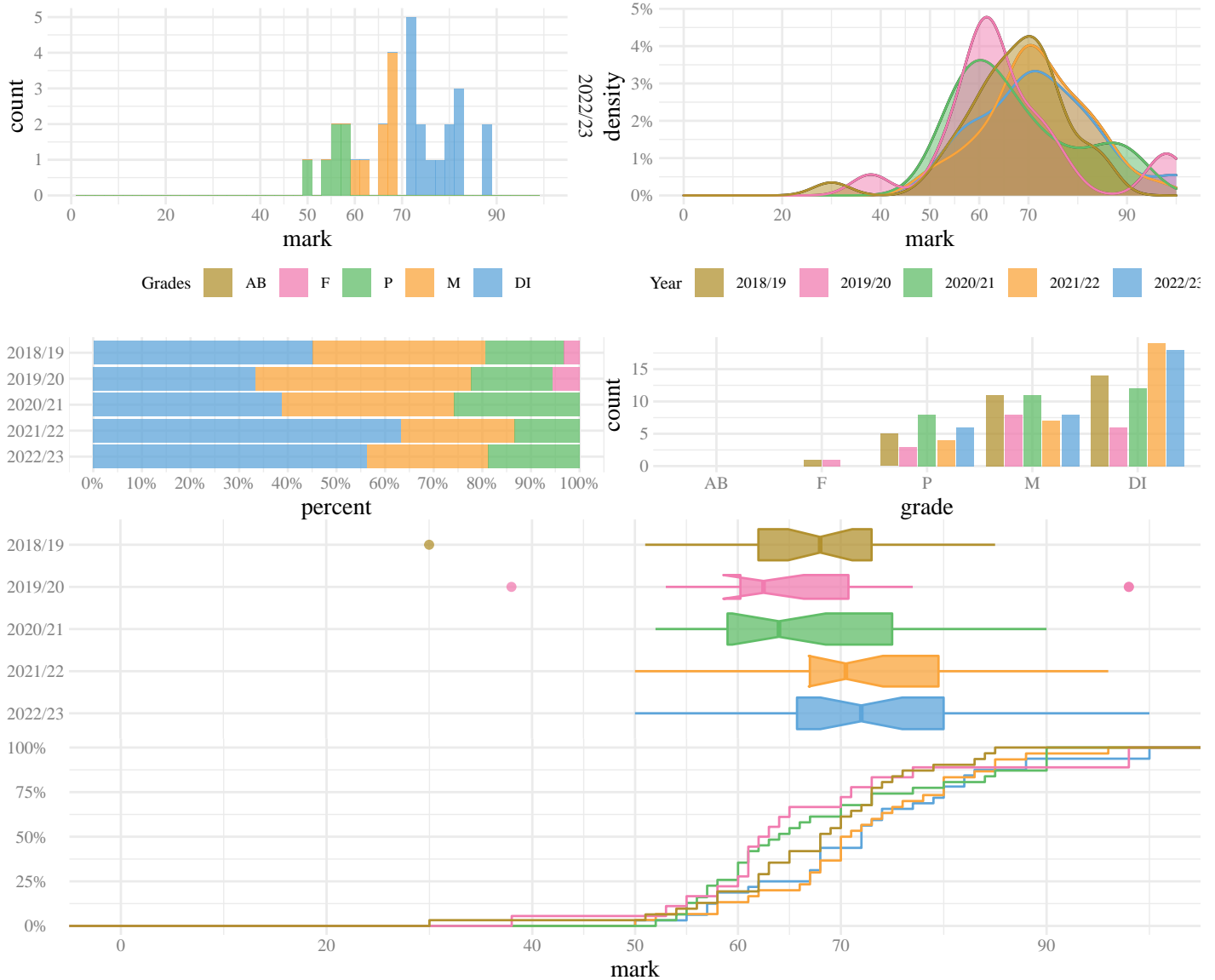
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	35	69.2	14.1	34	51.0	59.0	72.0	21.0	80.0	84.0	87.3	91
2019/20	23	81.5	18.5	32	55.6	74.5	85.0	22.0	96.5	99.8	100.0	100
2020/21	35	70.3	18.5	3	52.8	63.5	74.0	16.0	79.5	88.6	95.3	100
2021/22	47	66.5	17.6	20	50.0	55.0	67.0	25.5	80.5	88.2	91.0	100
2022/23	48	65.2	19.3	12	40.7	50.8	66.0	31.5	82.2	87.6	90.0	99

MA416: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	35		2	8	3	22		5.7	22.9	8.6	62.9	
2019/20	23		1	3	1	18		4.3	13.0	4.3	78.3	
2020/21	35		2	3	9	21		5.7	8.6	25.7	60.0	
2021/22	47		4	13	7	23		8.5	27.7	14.9	48.9	
2022/23	48		8	9	9	22		16.7	18.8	18.8	45.8	

MA416: Grade summary – Count and Percentage distribution (%).

MA417: Computational Methods in Finance



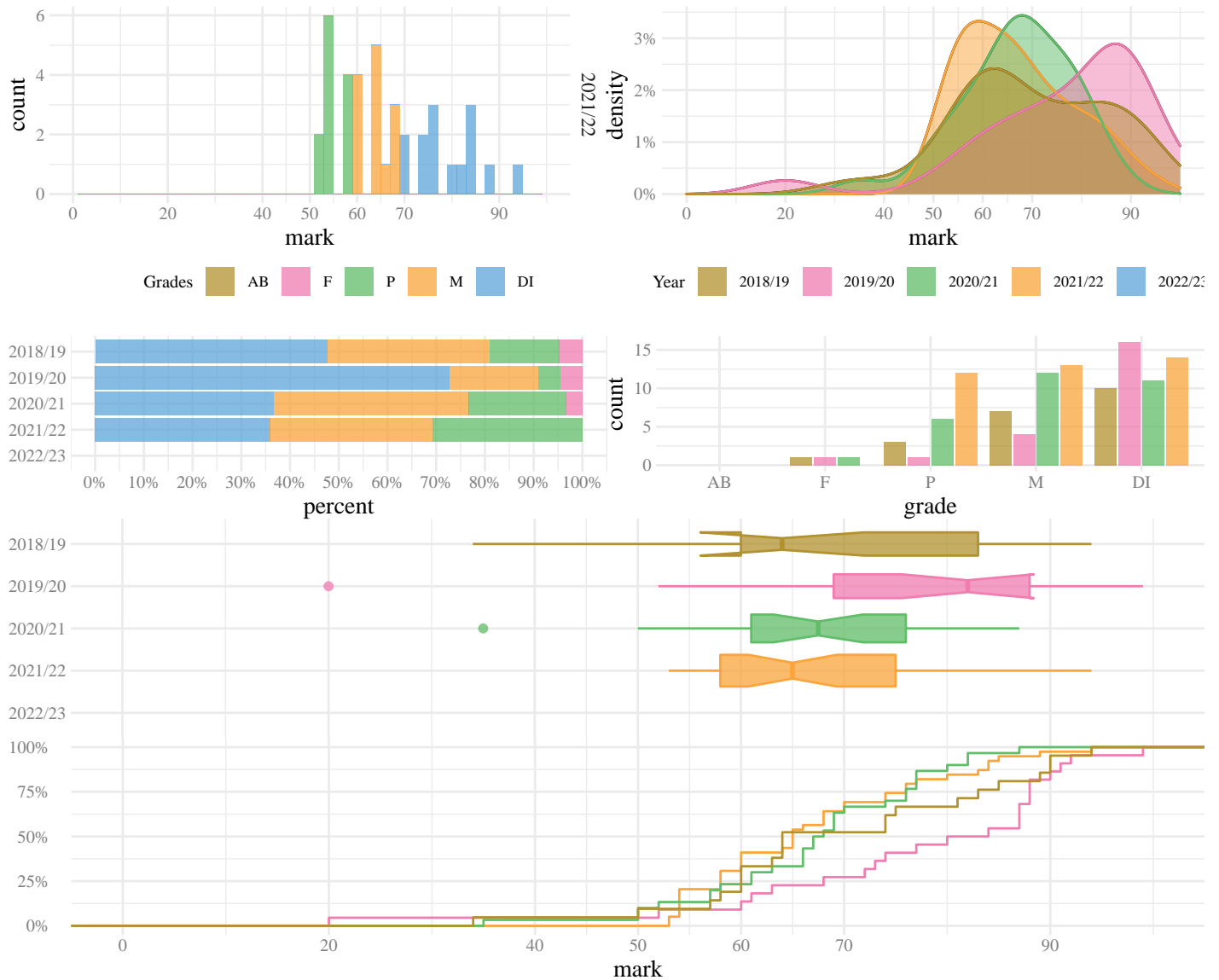
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	31	67.1	10.9	30	56.0	62.0	68.0	11.0	73.0	79.0	83.5	85
2019/20	18	66.0	14.4	38	54.4	60.2	62.5	10.5	70.8	83.3	98.0	98
2020/21	31	67.9	12.1	52	55.0	59.0	64.0	16.0	75.0	90.0	90.0	90
2021/22	30	71.8	10.5	50	58.0	67.0	70.5	12.5	79.5	85.0	86.6	96
2022/23	32	72.2	12.1	50	57.1	65.8	72.0	14.2	80.0	87.5	93.4	100

MA417: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	31		1	5	11	14		3.2	16.1	35.5	45.2	
2019/20	18		1	3	8	6		5.6	16.7	44.4	33.3	
2020/21	31			8	11	12			25.8	35.5	38.7	
2021/22	30			4	7	19			13.3	23.3	63.3	
2022/23	32			6	8	18			18.8	25.0	56.2	

MA417: Grade summary – Count and Percentage distribution (%).

MA420: Topics in Financial Mathematics



Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	21	70.0	15.4	34	57.0	60.0	64.0	23.0	83.0	90.0	90.0	94
2019/20	22	76.4	17.6	20	60.1	69.0	82.0	19.0	88.0	90.9	92.0	99
2020/21	30	67.0	11.4	35	51.8	61.0	67.5	15.0	76.0	80.2	82.0	87
2021/22	39	67.0	11.3	53	54.0	58.0	65.0	17.0	75.0	84.0	85.4	94
2022/23	0											

MA420: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	21		1	3	7	10		4.8	14.3	33.3	47.6	
2019/20	22		1	1	4	16		4.5	4.5	18.2	72.7	
2020/21	30		1	6	12	11		3.3	20.0	40.0	36.7	
2021/22	39			12	13	14			30.8	33.3	35.9	
2022/23	0											

MA420: Grade summary – Count and Percentage distribution (%).

MA421: Topics in Algorithms



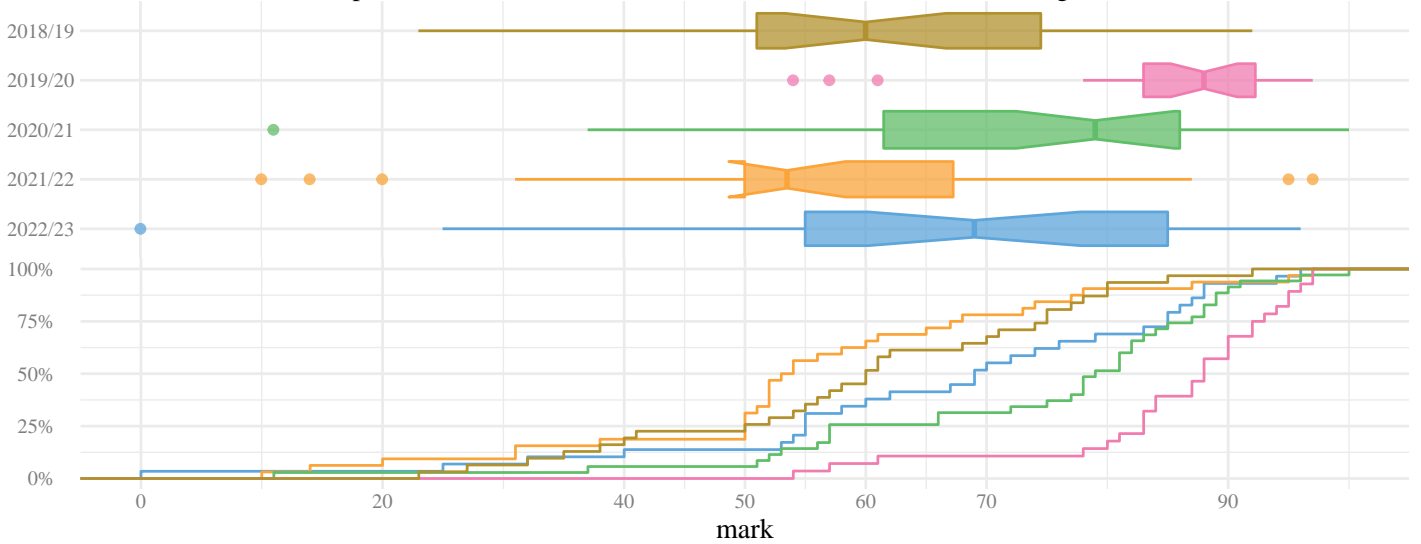
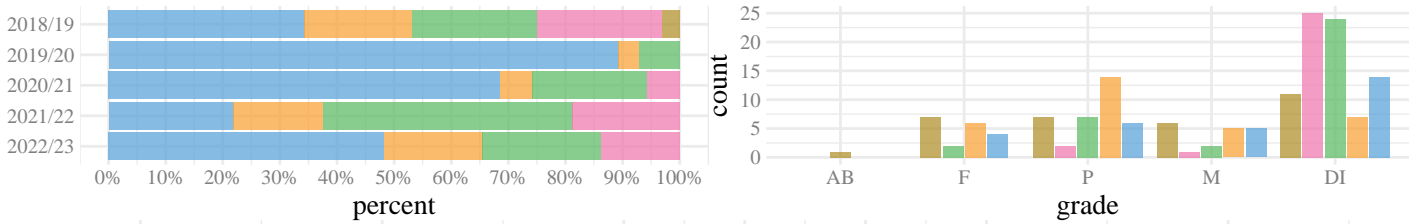
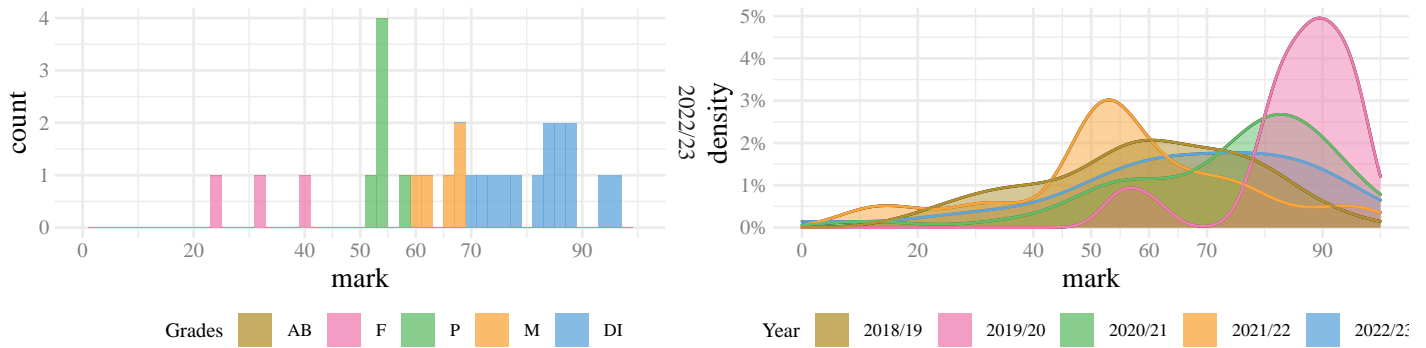
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	10	58.6	13.0	37	48.7	50.0	57.5	17.5	67.5	74.6	77.3	80
2019/20	13	61.1	14.1	37	46.8	51.0	58.0	20.0	71.0	78.8	81.4	85
2020/21	7	65.3	14.8	50	52.4	55.0	57.0	22.0	77.0	84.8	85.4	86
2021/22	5	59.8	12.8	39	45.8	56.0	66.0	12.0	68.0	69.2	69.6	70
2022/23	2	55.5	36.1	30	35.1	42.8	55.5	25.5	68.2	75.9	78.5	81

MA421: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	10		1	4	2	3		10.0	40.0	20.0	30.0	
2019/20	13		2	5	2	4		15.4	38.5	15.4	30.8	
2020/21	7			4		3			57.1		42.9	
2021/22	5		1	1	2	1		20.0	20.0	40.0	20.0	
2022/23	2		1			1		50.0			50.0	

MA421: Grade summary – Count and Percentage distribution (%).

MA423: Fundamentals of Operations Research



Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	31	59.6	17.7	23	35.0	51.0	60.0	23.5	74.5	80.0	82.5	92
2019/20	28	85.2	11.2	54	72.9	83.0	88.0	9.2	92.2	95.3	96.7	97
2020/21	35	73.6	18.4	11	52.4	61.5	79.0	24.5	86.0	89.6	92.5	100
2021/22	32	55.6	20.6	10	31.0	50.0	53.5	17.2	67.2	77.9	90.6	97
2022/23	29	66.1	22.0	0	38.4	55.0	69.0	30.0	85.0	88.0	91.6	96

MA423: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	32	1	7	7	6	11	3.1	21.9	21.9	18.8	34.4	
2019/20	28			2	1	25			7.1	3.6	89.3	
2020/21	35		2	7	2	24		5.7	20.0	5.7	68.6	
2021/22	32		6	14	5	7		18.8	43.8	15.6	21.9	
2022/23	29		4	6	5	14		13.8	20.7	17.2	48.3	

MA423: Grade summary – Count and Percentage distribution (%).

MA424: Modelling in Operations Research



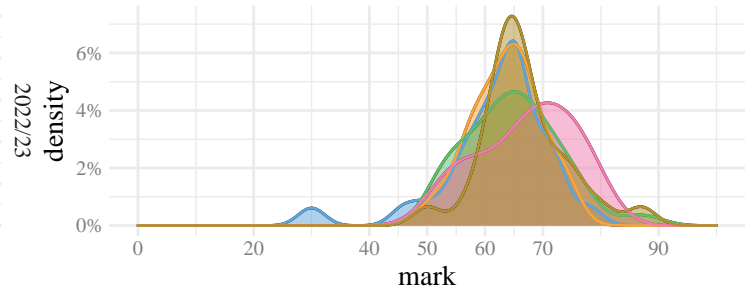
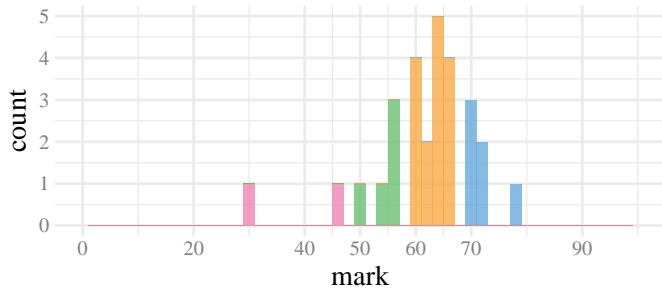
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	29	74.1	11.8	22	65.8	72.0	76.0	8.0	80.0	83.2	84.6	91
2019/20	32	67.3	10.1	53	57.0	62.0	65.0	12.8	74.8	79.9	86.7	92
2020/21	38	65.5	18.0	0	43.2	56.0	65.0	23.8	79.8	85.0	86.2	87
2021/22	33	69.3	9.6	44	60.0	64.0	68.0	11.0	75.0	80.8	83.8	89
2022/23	28	64.2	18.7	0	43.6	59.8	68.5	17.5	77.2	80.3	81.0	87

MA424: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	29		1		4	24		3.4			13.8	82.8
2019/20	32			7	16	9			21.9		50.0	28.1
2020/21	38		5	6	10	17		13.2	15.8		26.3	44.7
2021/22	33		1	2	14	16		3.0	6.1		42.4	48.5
2022/23	28		4	3	7	14		14.3	10.7		25.0	50.0

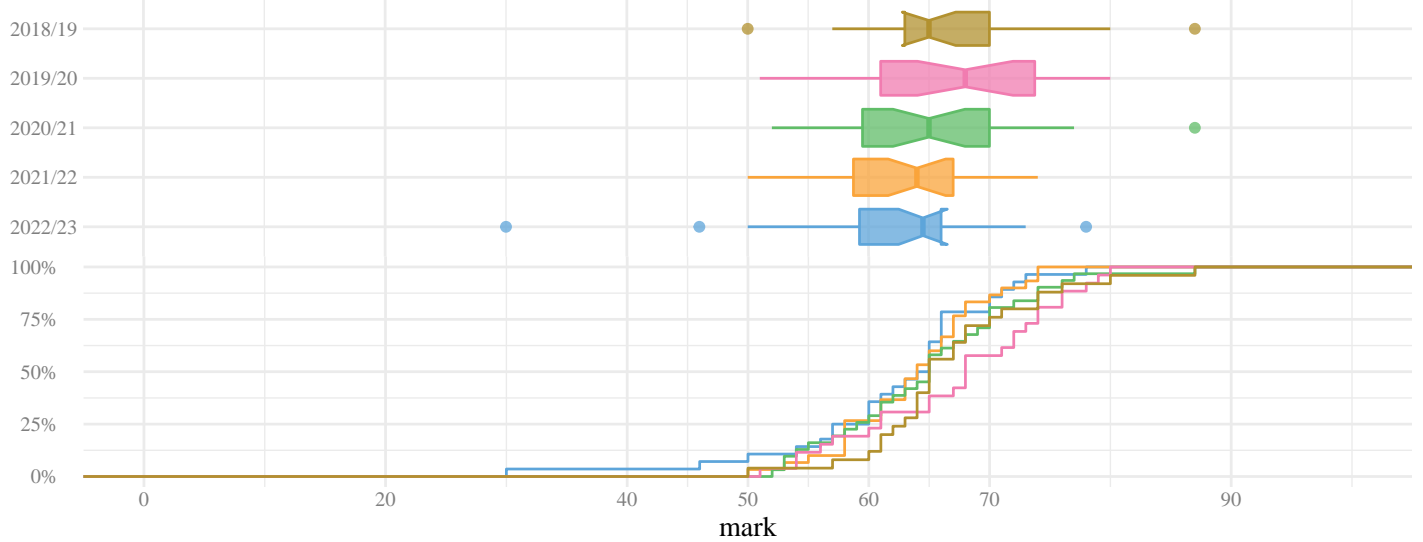
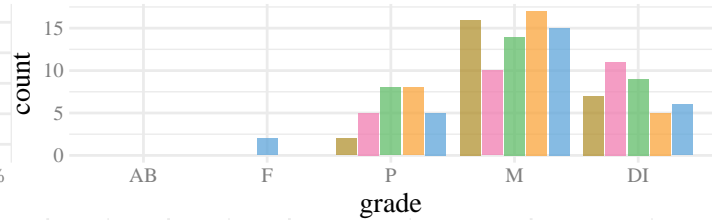
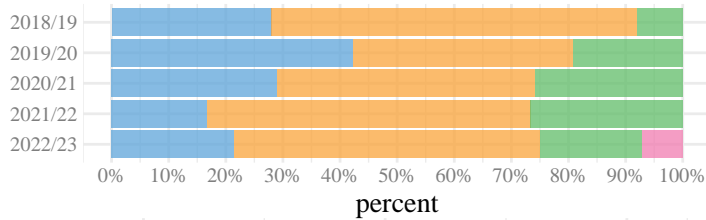
MA424: Grade summary – Count and Percentage distribution (%).

MA425: Project in Operations Research & Analytics



Grades AB F P M DI

Year 2018/19 2019/20 2020/21 2021/22 2022/23



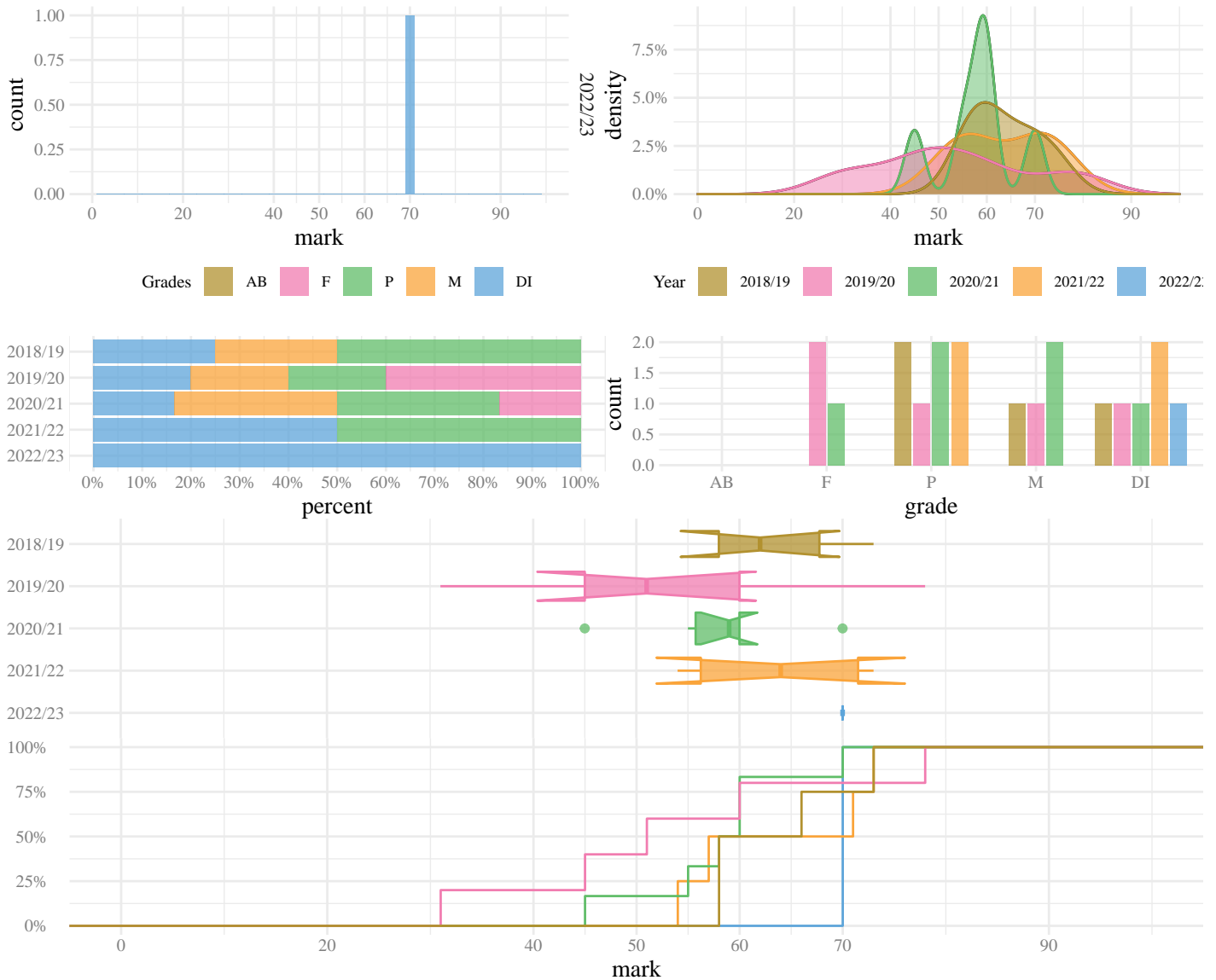
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	25	66.7	7.5	50	60.4	63.0	65.0	7.0	70.0	75.2	79.2	87
2019/20	26	67.2	8.3	51	55.0	61.0	68.0	12.8	73.8	77.0	78.8	80
2020/21	31	64.9	8.1	52	54.0	59.5	65.0	10.5	70.0	74.0	76.5	87
2021/22	30	63.6	6.0	50	57.7	58.8	64.0	8.2	67.0	71.2	73.5	74
2022/23	28	62.1	9.4	30	52.8	59.2	64.5	6.8	66.0	71.3	72.7	78

MA425: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	?:	AB	F	P	M	DI
2018/19	25			2	16	7				8.0	64.0	28.0
2019/20	26			5	10	11				19.2	38.5	42.3
2020/21	31			8	14	9				25.8	45.2	29.0
2021/22	30			8	17	5				26.7	56.7	16.7
2022/23	28		2	5	15	6		7.1	17.9	53.6	21.4	

MA425: Grade summary – Count and Percentage distribution (%).

MA426: Dissertation in Operations Research & Analytics



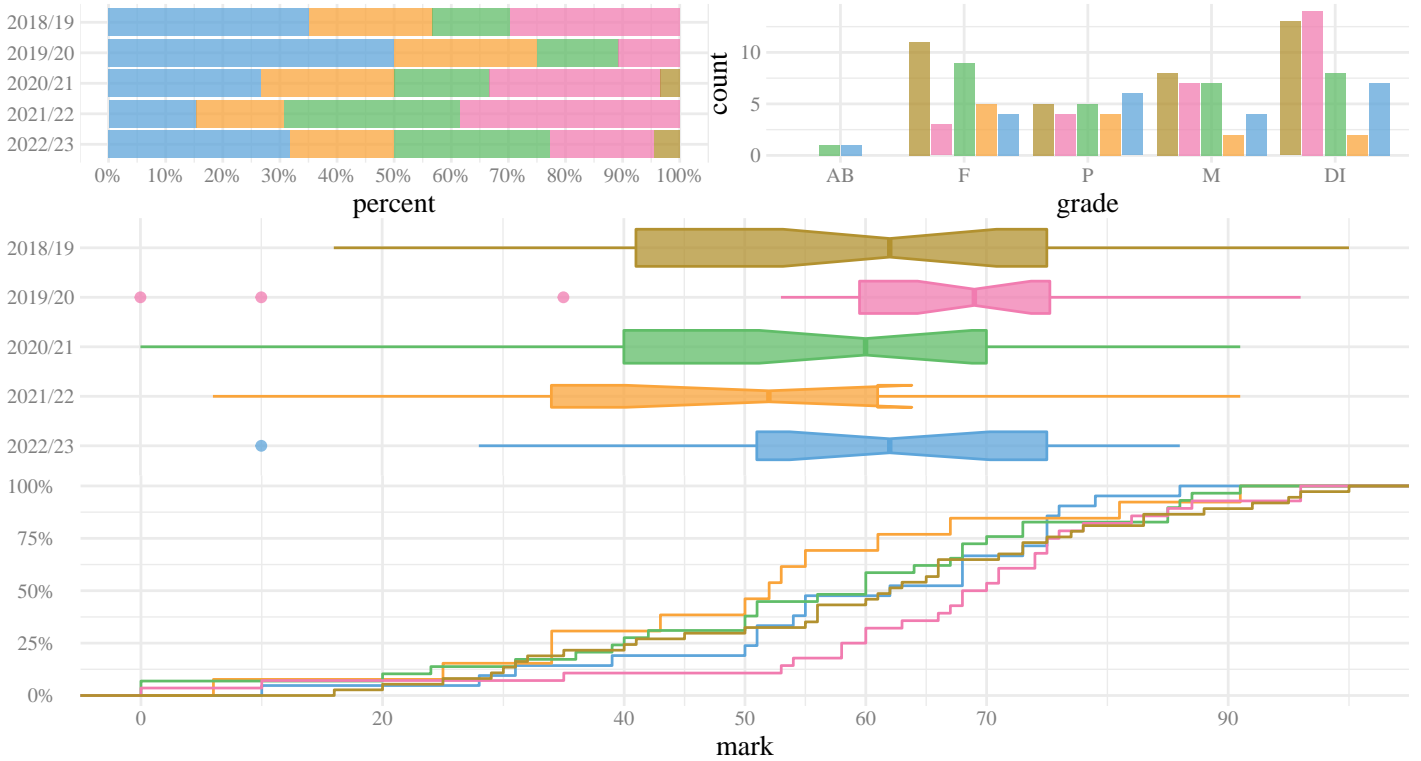
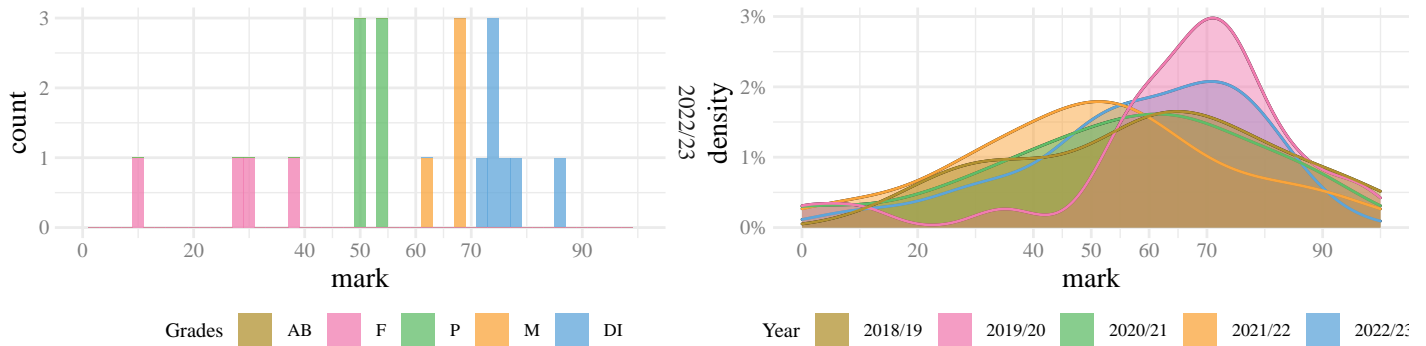
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	4	63.8	7.2	58	58.0	58.0	62.0	9.8	67.8	70.9	72.0	73
2019/20	5	53.0	17.5	31	36.6	45.0	51.0	15.0	60.0	70.8	74.4	78
2020/21	6	58.0	8.1	45	50.0	55.8	59.0	4.2	60.0	65.0	67.5	70
2021/22	4	63.8	9.6	54	54.9	56.2	64.0	15.2	71.5	72.4	72.7	73
2022/23	1	70.0		70	70.0	70.0	70.0	0.0	70.0	70.0	70.0	70

MA426: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	4			2	1	1				50.0	25.0	25.0
2019/20	5		2	1	1	1		40.0	20.0	20.0	20.0	
2020/21	6		1	2	2	1		16.7	33.3	33.3	16.7	
2021/22	4			2		2				50.0		50.0
2022/23	1					1					100.0	

MA426: Grade summary – Count and Percentage distribution (%).

MA427: Mathematical Optimisation



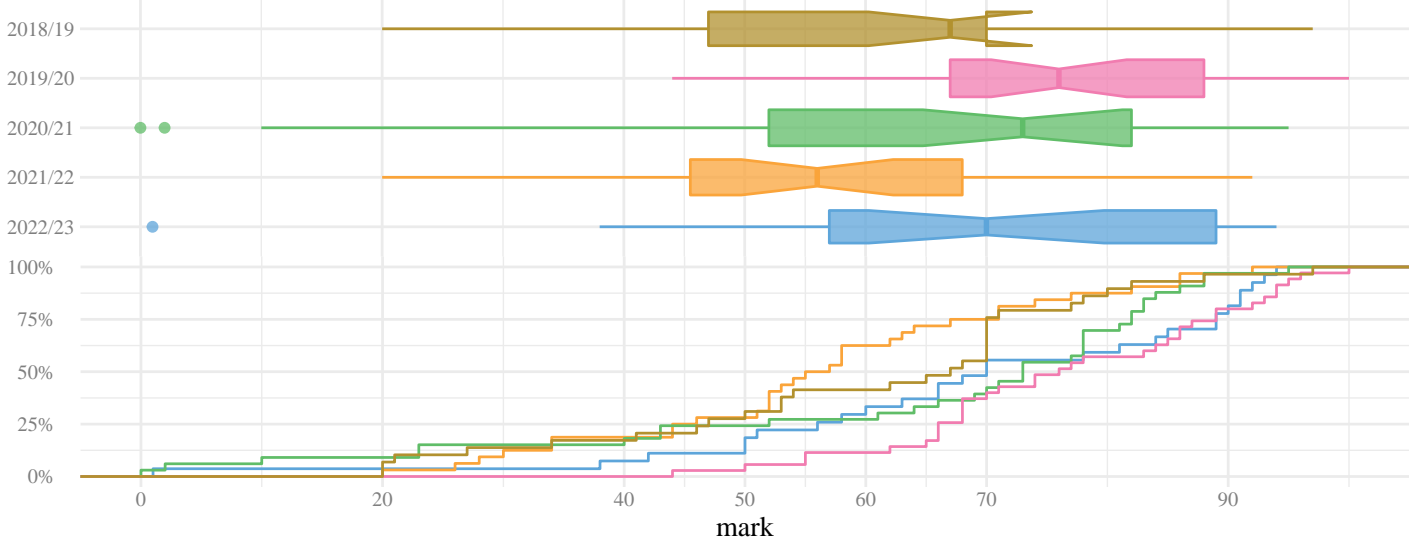
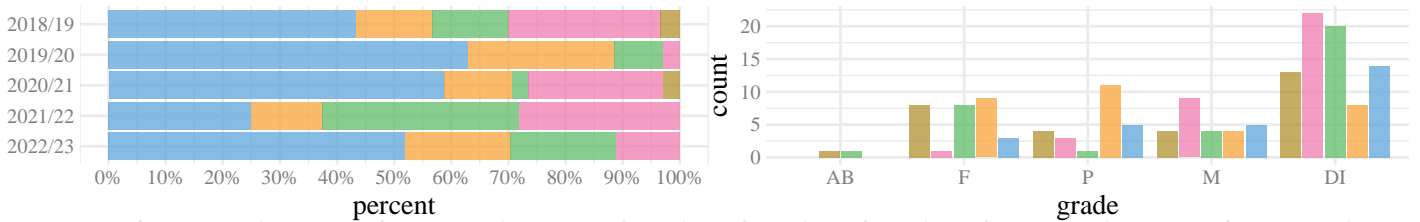
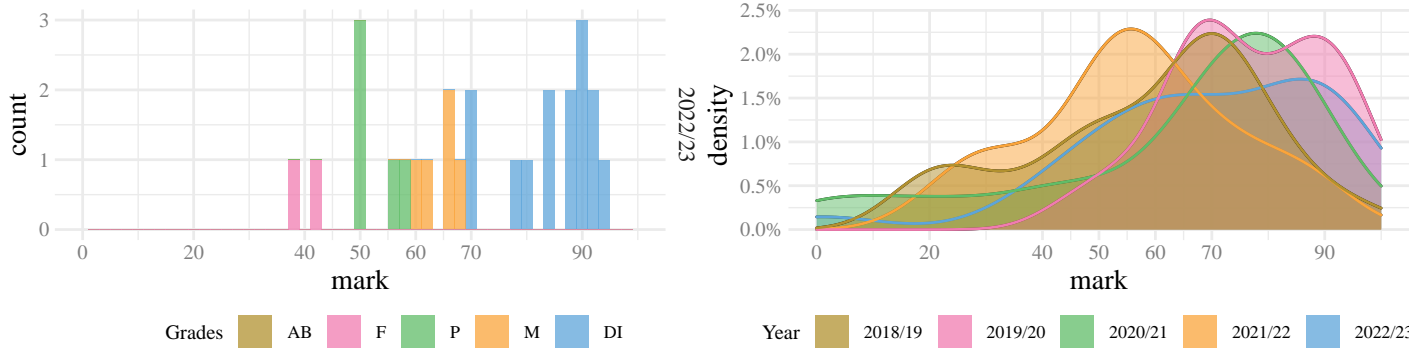
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	37	59.7	22.6	16	29.6	41.0	62.0	34.0	75.0	89.6	95.2	100
2019/20	28	65.4	21.5	0	47.6	59.5	69.0	15.8	75.2	85.6	92.8	96
2020/21	29	54.7	24.3	0	23.2	40.0	60.0	30.0	70.0	85.2	86.6	91
2021/22	13	50.2	22.8	6	26.8	34.0	52.0	27.0	61.0	78.2	85.0	91
2022/23	21	58.5	19.3	10	31.0	51.0	62.0	24.0	75.0	76.0	79.0	86

MA427: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	37		11	5	8	13		29.7	13.5	21.6	35.1	
2019/20	28		3	4	7	14		10.7	14.3	25.0	50.0	
2020/21	30	1	9	5	7	8	3.3	30.0	16.7	23.3	26.7	
2021/22	13		5	4	2	2		38.5	30.8	15.4	15.4	
2022/23	22	1	4	6	4	7	4.5	18.2	27.3	18.2	31.8	

MA427: Grade summary – Count and Percentage distribution (%).

MA428: Combinatorial Optimisation



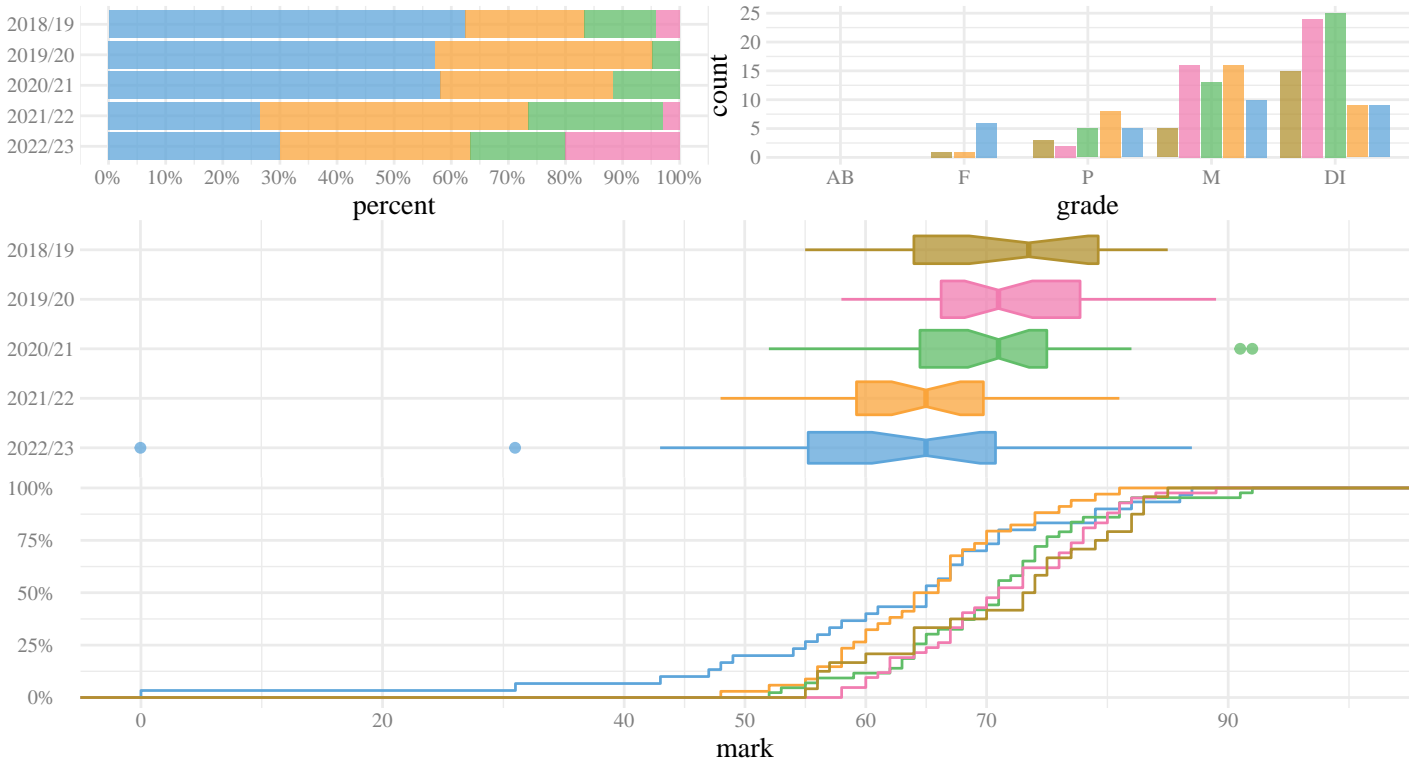
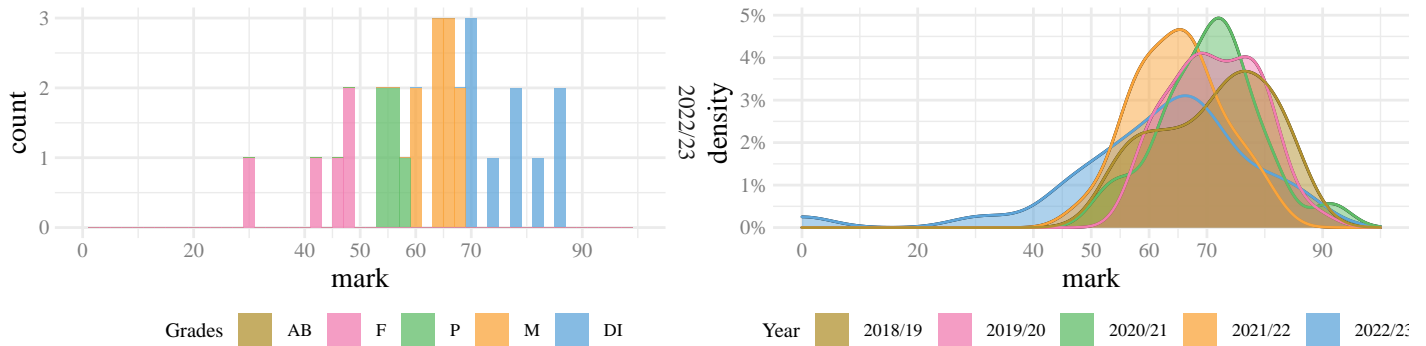
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	29	59.3	20.7	20	25.8	47.0	67.0	23.0	70.0	80.4	85.6	97
2019/20	35	76.4	14.2	44	57.8	67.0	76.0	21.0	88.0	94.0	95.3	100
2020/21	33	63.5	26.1	0	23.0	52.0	73.0	30.0	82.0	85.6	88.0	95
2021/22	32	56.3	18.3	20	30.4	45.5	56.0	22.5	68.0	81.5	86.0	92
2022/23	27	69.1	21.9	1	46.8	57.0	70.0	32.0	89.0	91.4	92.7	94

MA428: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	30	1	8	4	4	13		3.3	26.7	13.3	13.3	43.3
2019/20	35		1	3	9	22			2.9	8.6	25.7	62.9
2020/21	34	1	8	1	4	20		2.9	23.5	2.9	11.8	58.8
2021/22	32		9	11	4	8			28.1	34.4	12.5	25.0
2022/23	27		3	5	5	14			11.1	18.5	18.5	51.9

MA428: Grade summary – Count and Percentage distribution (%).

MA429: Algorithmic Techniques in Machine Learning



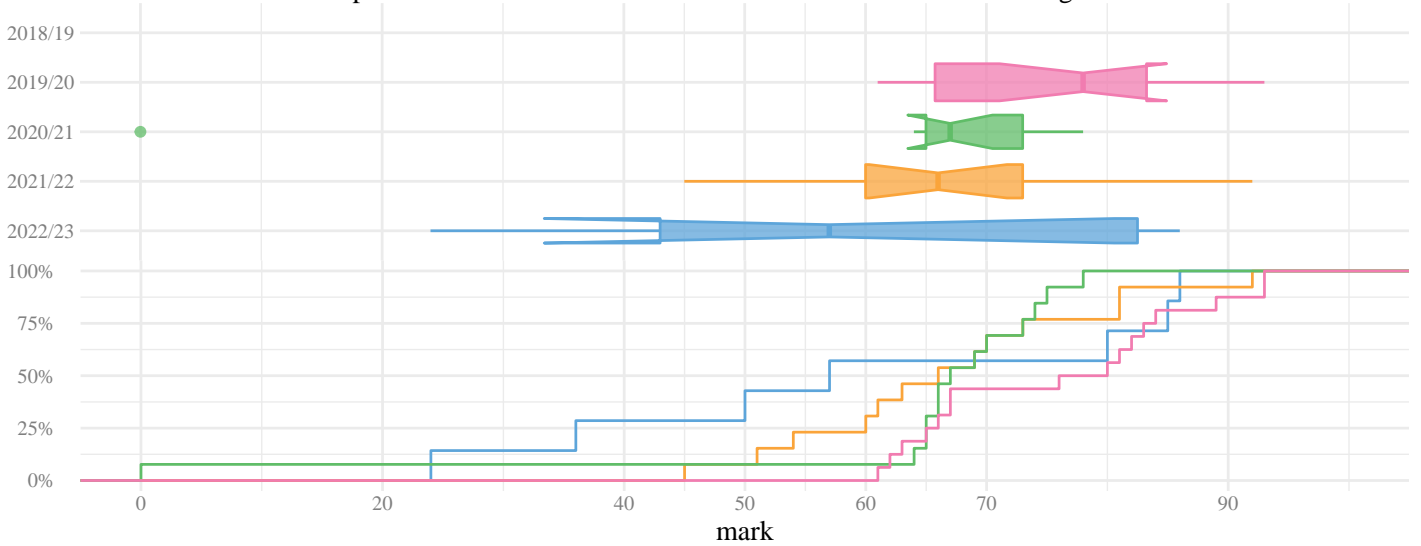
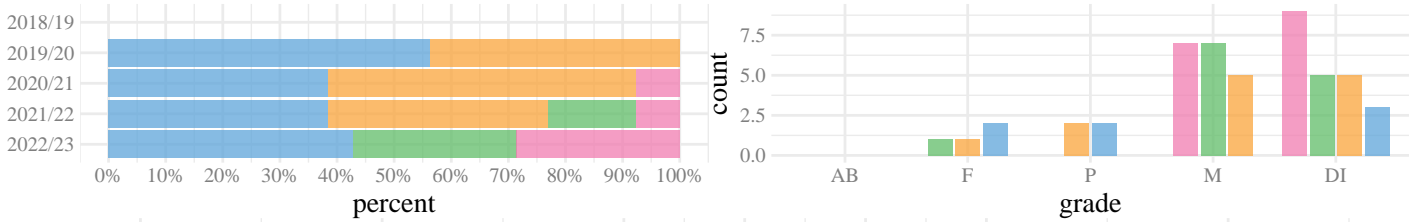
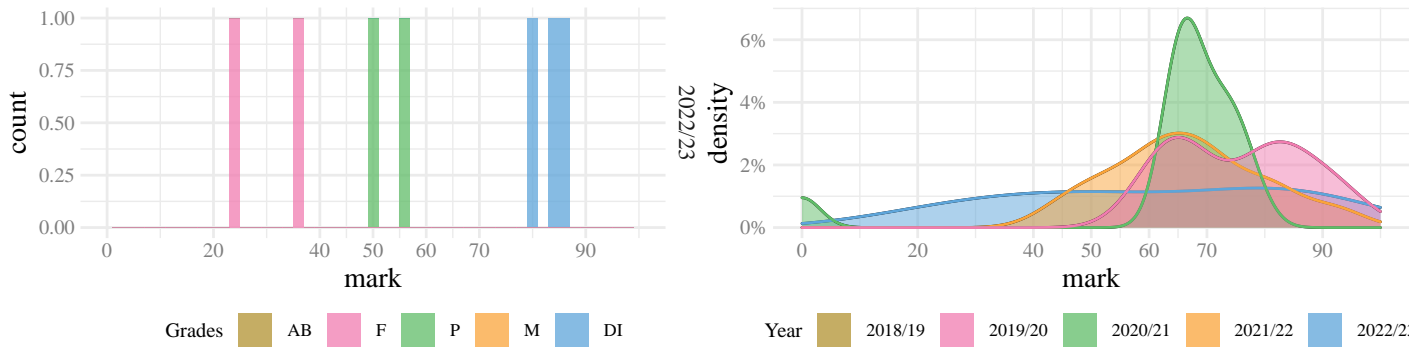
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	24	71.2	9.7	55	56.3	64.0	73.5	15.2	79.2	82.7	83.0	85
2019/20	42	71.4	7.7	58	61.1	66.2	71.0	11.5	77.8	80.9	81.9	89
2020/21	43	70.4	8.8	52	59.6	64.5	71.0	10.5	75.0	81.0	81.9	92
2021/22	34	64.9	7.8	48	56.0	59.2	65.0	10.5	69.8	75.4	77.7	81
2022/23	30	61.6	17.3	0	46.6	55.2	65.0	15.5	70.8	79.3	84.2	87

MA429: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	?:	AB	F	P	M	DI
2018/19	24		1	3	5	15			4.2	12.5	20.8	62.5
2019/20	42			2	16	24				4.8	38.1	57.1
2020/21	43			5	13	25				11.6	30.2	58.1
2021/22	34		1	8	16	9			2.9	23.5	47.1	26.5
2022/23	30		6	5	10	9			20.0	16.7	33.3	30.0

MA429: Grade summary – Count and Percentage distribution (%).

MA433: Mathematics of Networks



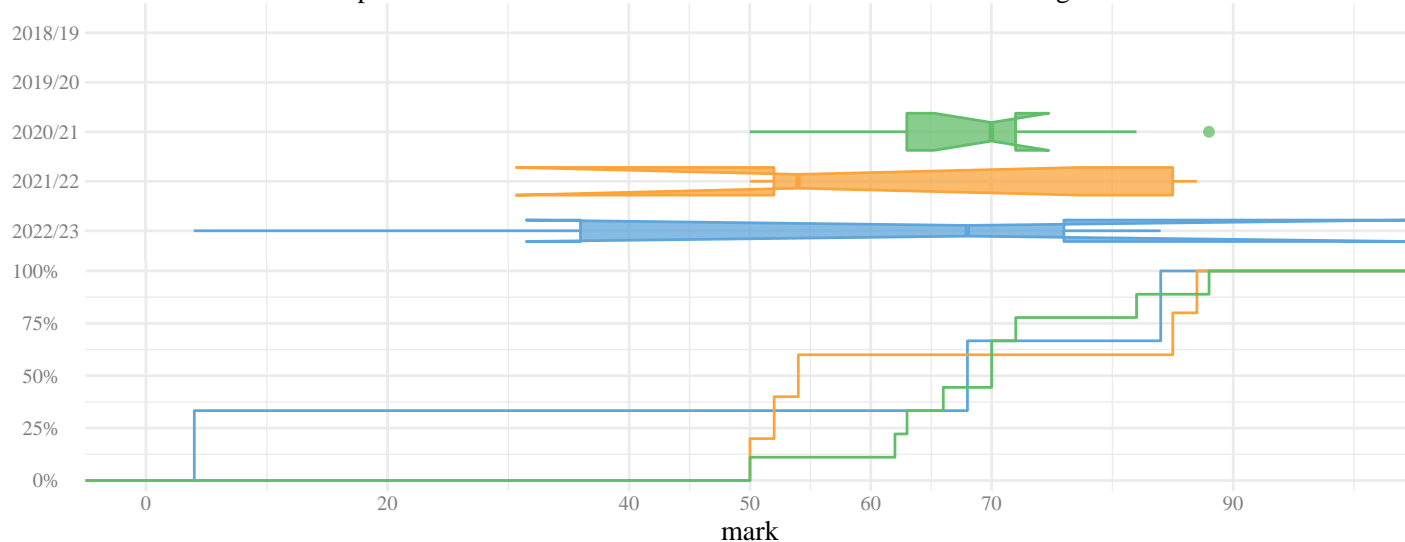
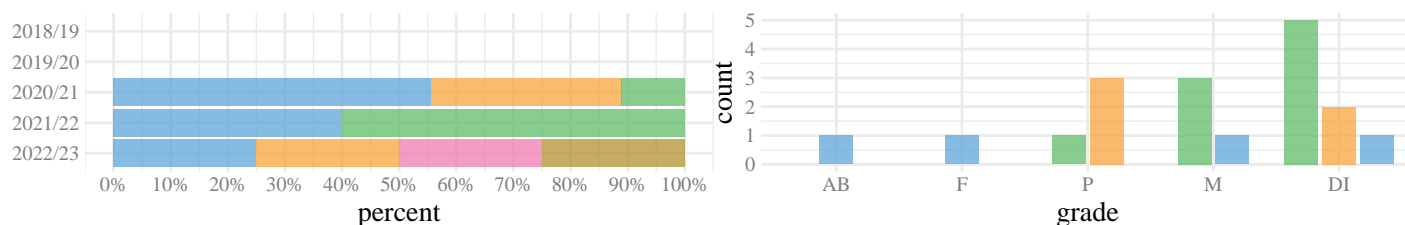
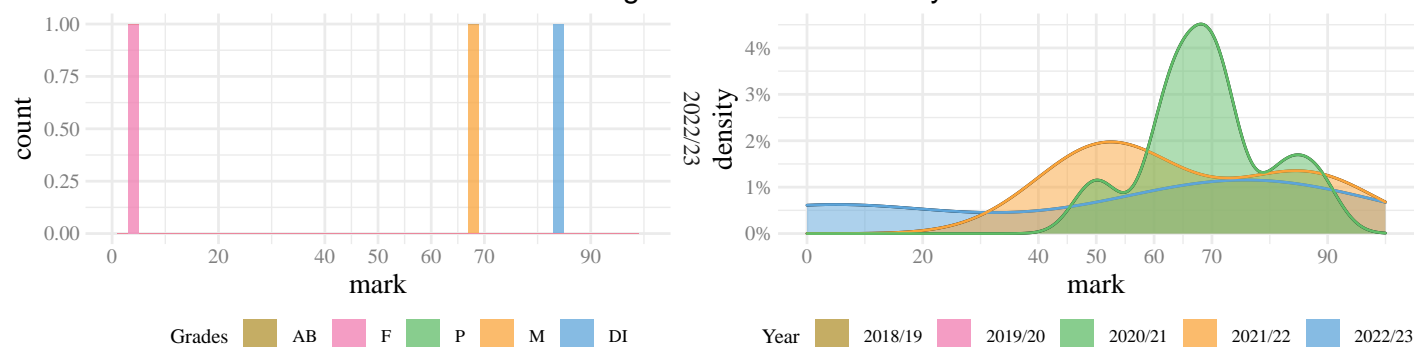
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	0											
2019/20	16	75.8	11.3	61	62.5	65.8	78.0	17.5	83.2	91.0	93.0	93
2020/21	13	64.0	19.7	0	64.2	65.0	67.0	8.0	73.0	74.8	76.2	78
2021/22	13	66.6	13.2	45	51.6	60.0	66.0	13.0	73.0	81.0	85.4	92
2022/23	7	59.7	24.8	24	31.2	43.0	57.0	39.5	82.5	85.4	85.7	86

MA433: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	0											
2019/20	16				7	9				43.8	56.2	
2020/21	13		1		7	5			7.7		53.8	38.5
2021/22	13		1	2	5	5			7.7	15.4	38.5	38.5
2022/23	7		2	2		3			28.6	28.6		42.9

MA433: Grade summary – Count and Percentage distribution (%).

MA434: Algorithmic Game Theory



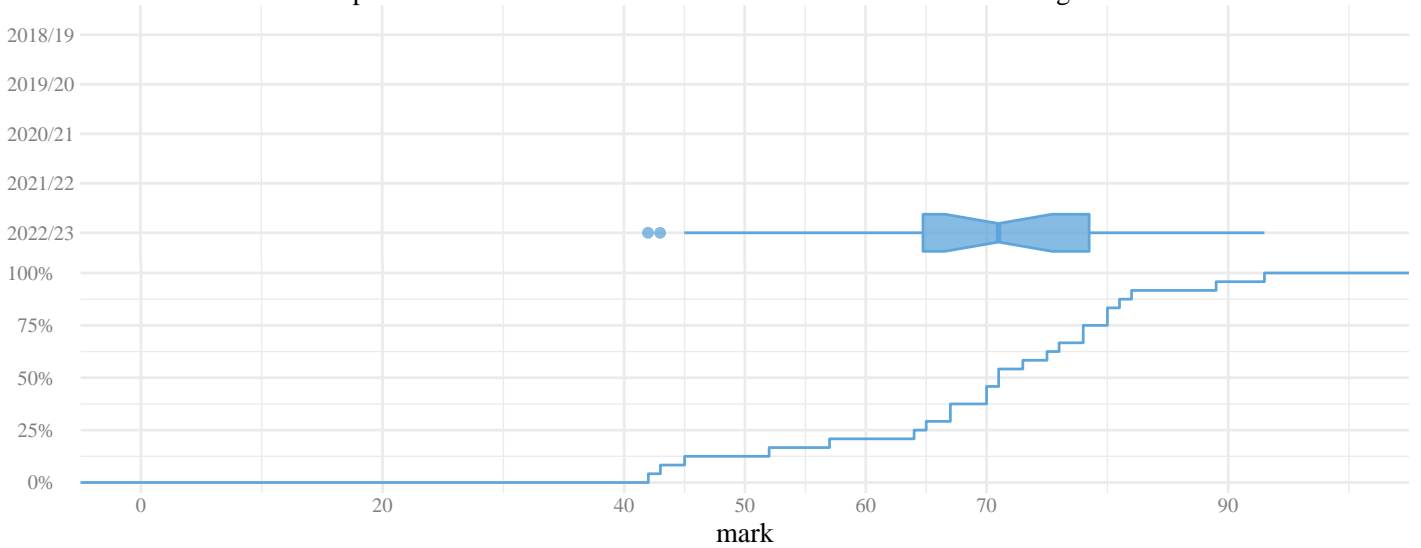
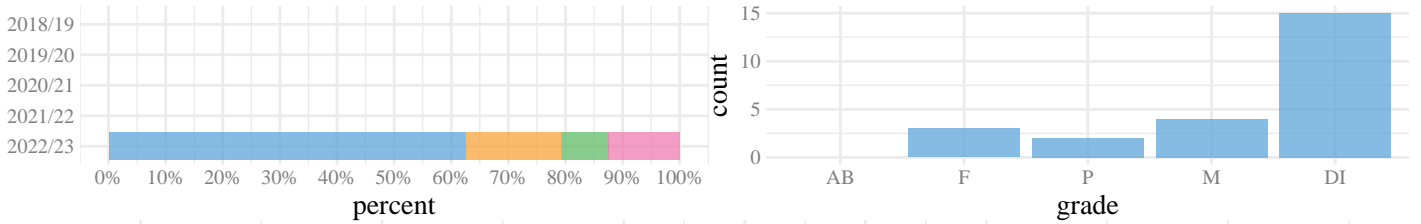
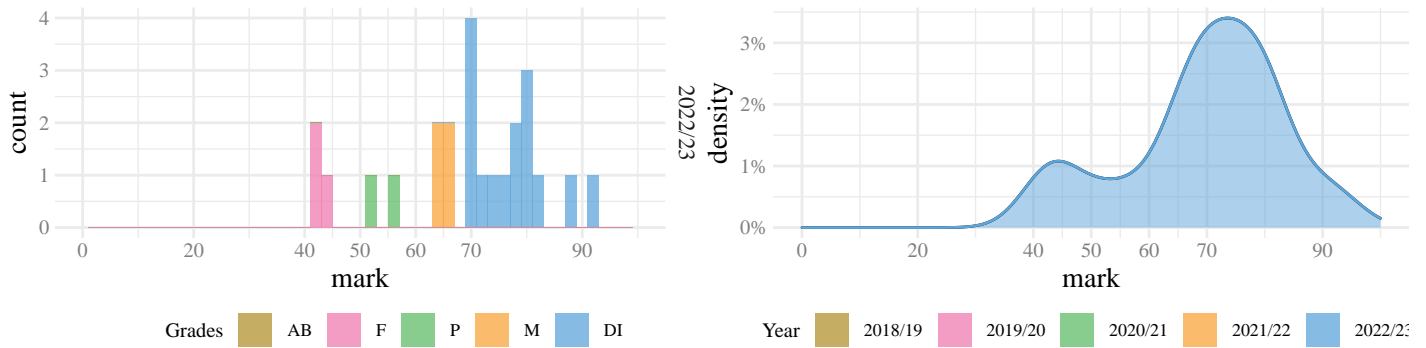
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	0											
2019/20	0											
2020/21	9	69.2	11.2	50	59.6	63.0	70	9.0	72.0	83.2	85.6	88
2021/22	5	65.6	18.7	50	50.8	52.0	54	33.0	85.0	86.2	86.6	87
2022/23	3	52.0	42.3	4	16.8	36.0	68	40.0	76.0	80.8	82.4	84

MA434: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	0											
2019/20	0											
2020/21	9			1	3	5			11.1	33.3	55.6	
2021/22	5			3	2				60.0		40.0	
2022/23	4	1	1		1	1	25.0	25.0		25.0	25.0	

MA434: Grade summary – Count and Percentage distribution (%).

MA435: Machine Learning in Financial Mathematics



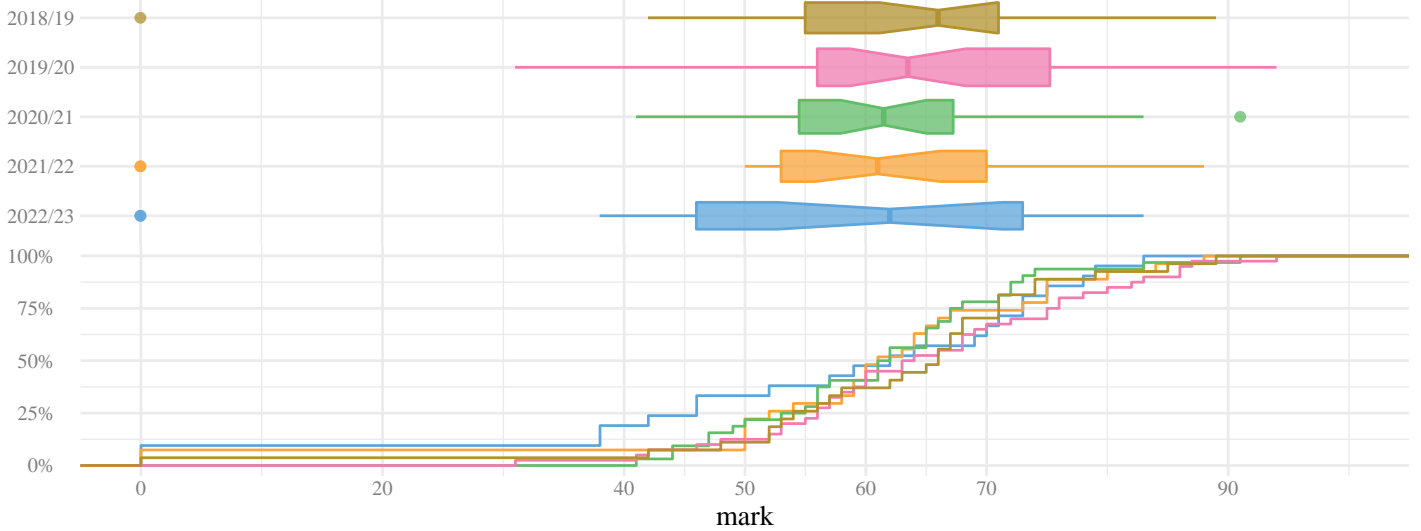
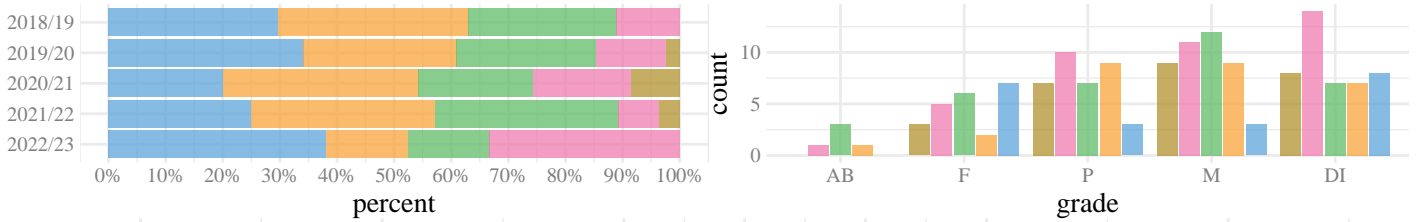
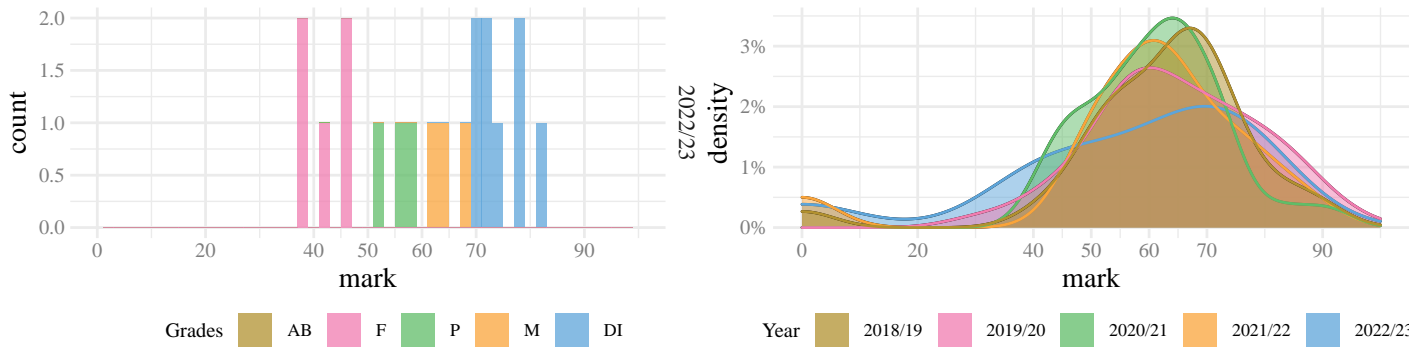
Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	0											
2019/20	0											
2020/21	0											
2021/22	0											
2022/23	24	69.5	13.6	42	47.1	64.8	71.0	13.8	78.5	81.7	87.9	93

MA435: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	0											
2019/20	0											
2020/21	0											
2021/22	0											
2022/23	24		3	2	4	15		12.5	8.3	16.7	62.5	

MA435: Grade summary – Count and Percentage distribution (%).

MA498: Dissertation in Mathematics



Year	marks	mean	sd	min	q10	q25	median	IQR	q75	q90	q95	max
2018/19	27	62.1	16.5	0	50.4	55.0	66.0	16.0	71.0	76.0	83.2	89
2019/20	40	64.8	14.1	31	47.8	56.0	63.5	19.2	75.2	83.3	86.0	94
2020/21	32	61.3	11.4	41	47.0	54.5	61.5	12.8	67.2	72.9	78.0	91
2021/22	27	59.3	20.1	0	50.0	53.0	61.0	17.0	70.0	77.0	82.8	88
2022/23	21	56.0	23.1	0	38.0	46.0	62.0	27.0	73.0	78.0	79.0	83

MA498: Mark summary – Mean, Standard deviation and Quantiles.

Year	results	AB	F	P	M	DI	%:	AB	F	P	M	DI
2018/19	27		3	7	9	8		11.1	25.9	33.3	29.6	
2019/20	41	1	5	10	11	14		2.4	12.2	24.4	26.8	34.1
2020/21	35	3	6	7	12	7		8.6	17.1	20.0	34.3	20.0
2021/22	28	1	2	9	9	7		3.6	7.1	32.1	32.1	25.0
2022/23	21		7	3	3	8		33.3	14.3	14.3	38.1	

MA498: Grade summary – Count and Percentage distribution (%).