



آغا خان یونیورسٹی ایگزامینیشن بورڈ
AGA KHAN UNIVERSITY EXAMINATION BOARD

Teaching and Learning Resources for Grade XI Business Mathematics

Recommended Key Textbook:

Business Mathematics for Grade XI

- Hakim, Hamid A. (2007-08). *Fundamentals of Business Mathematics*. Karachi: Meyari Matboat.
- Siddiqui, Nadeem Akhter. (2007-08). *Business Mathematics*. Lahore: Azeem Academy.

Additional Recommended Resource Material				
Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
1.	Business Arithmetic	<i>Fundamentals of Business Mathematics</i> , Hamid A. Hakeem.	Chapter 1 & 2	
		<i>Business Mathematics</i> , Nadeem Akhter Siddiqui	Chapter 1	
		<i>Business Mathematics</i> , Shahid Jamal.	Chapter 2	
		<i>Business Mathematics</i> , Khursheed Alam.	Chapter 2	

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
2.	Interest and Annuities	<i>Business Mathematics</i> , Mirza Mohammad Hasan, and Mohammad Ali Mirza, Farooq Kitab Gher	Topic 9 Mathematics of Finance – I Topic 10 Mathematics of Finance – II Topic 11 Mathematics of Finance - III	https://www.youtube.com/watch?v=EVUmRDYYbCc https://opentuition.com/acca/f2/acca-f2-simple-interest-compound-interest/ https://www.youtube.com/watch?v=wf91rEGw88Q https://opentuition.com/acca/f2/acca-f2-discounting-annuities-perpetuities/
3.	Linear Equations, Functions and their Graphs	<i>Fundamentals of Business Mathematics</i> , Hamid A. Hakeem	Chapter 8	http://mathopenref.com/coordslope.html
		<i>Business Mathematics</i> , Nadeem Akhtar Siddiqui, Tariq Ali Khan	Chapter 3 & 4	
4.	Quadratic Equations, Quadratic Functions and their Graphs	<i>Fundamentals of Business Mathematics</i> , Hamid A. Hakeem	Chapter 8	http://mathopenref.com/tocs/quadratictoc.html
		<i>Business Mathematics</i> , Nadeem Akhtar Siddiqui, Tariq Ali Khan	Chapter 3 & 4	
5.	Simultaneous Solution of Equations and Linear Inequalities	<i>Algebra And Trigonometry For Class XI</i> , Punjab Text Book	Chapter3: Topic 3.11 and Topic 3.12	

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
6.	Matrices and Determinants	<i>Fundamentals Of Business Mathematics</i> , Hamid A. Hakeem	Chapter 9	
		<i>Business Mathematics</i> , Nadeem Akhtar Siddiqui, Tariq Ali Khan	Chapter 5	
		<i>Algebra And Trigonometry For Class XI</i> , Punjab Text Book	Chapter 3	
		<i>Additional Mathematics</i> , Ho Soo Thong and Khor Nyak Hiong	Chapter 6	
7.	Derivative of Algebraic Functions	<i>Calculus and Analytical Geometry For Class XII</i> , Punjab Text Book	Chapter 2	
8.	Sequence and Series	<i>Algebra and Trigonometry For Class XI</i> , Punjab Text Book	Chapter 6	

Note: This resource list has been prepared primarily for teachers. While it can be shared with students, students should not be required to buy multiple books. Schools are encouraged to stock these books in the library. Moreover, these are only suggestions which have been compiled for the ease of teachers and students; schools are encouraged to use other resources for teaching and learning as well, as long as they are in line with the student learning outcomes (SLOs) mentioned in AKU-EB syllabi. Unless specified, AKU-EB does not endorse any of these books or websites. You are advised to use an ad-blocker while accessing the websites. In case any website is not functional for any reason, you may inform us at examination.board@aku.edu for an alternative or search material via any search engine. If you have any query, please contact us via email.



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Teaching and Learning Resources for Grade XII Business Statistics

Recommended Key Textbook:

Business Statistics for Grade XII:

- Hakim, Hamid A. (2006). *Fundamentals of Business Statistics*. Karachi: Meyari Matboot.
- Siddiqui, Nadeem Akhter. (2001). *Business Statistics*, Lahore: Azeem Academy. (not mentioned in the reference book list).

Additional Recommended Resource Material				
Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
9.	Introduction to Statistics	<i>Statistics B.com part I</i> , Shahid Jamal.	Chapter 1	
		<i>Business Statistics I. Com II</i> , Tariq Ali Khan.	Chapter 1	
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem	Chapter 1	
		<i>Introduction to Statistics</i> , Ronald Walpole (3 rd edition)	Chapter 1	
		SCHAUM's Outline Series	Chapter 1	

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
10.	Presentation of Statistical Data	<i>Statistics B.com part I</i> , Shahid Jamal.	Chapter 1	https://www.emathzone.com/
		<i>Business Statistics I. Com II</i> , Tariq Ali Khan.	Chapter 2	
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem	Chapter 2	
11.	Measures of Central Tendency and Quartiles	<i>Basic Statistics</i> , Douglas A. Lind and Robert D. Mason.	Chapter 3	https://cpb-us-east-1-juc1ugur1qwqqqo4.stackpathdns.com/cobblearning.net/dist/e/2677/files/2016/04/1-Measures-of-Central-Tendency-WS-1phgon5.pdf https://www.emathzone.com/
		<i>Statistics B.com part I</i> , Shahid Jamal.	Chapter 2	
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem	Chapter 3	
		<i>Tools of Statistical Analysis</i> , S.M. Ahsan Hussain.	Chapter 3	
12.	Measures of Dispersion	<i>Basic Statistics</i> , Douglas A. Lind and Robert D. Mason.	Chapter 3	
		<i>Statistics B.com part I</i> , Shahid Jamal.	Chapter 3	
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem.	Chapter 4	
		<i>Tools of Statistical Analysis</i> , S.M. Ahsan Hussain.	Chapter 4	

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
13.	Number Index	<i>Basic Statistics</i> , Douglas A. Lind and Robert D. Mason.	Chapter 15	
		<i>Statistics B.com part 1</i> , Shahid Jamal.	Chapter 5	
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem	Chapter 7	
		<i>Tools of Statistical Analysis</i> , S.M. Ahsan Hussain	Chapter 7	
		<i>SCHAUM's Outline Series</i>	Chapter 6	
14.	Counting Techniques and Probability	<i>Basic Statistics</i> , Douglas A. Lind and Robert D. Mason.	Chapter 4	https://faculty.elgin.edu/dkernler/statistics/ch05/5-5.html
		<i>Tools of Statistical Analysis</i> , S.M. Ahsan Hussain.	Chapter 9	http://faculty.kutztown.edu/fowler/Handouts/Math/MAT104/CountingTechniquesAndProbabilitySummary.pdf
		<i>Statistics B.com part 1</i> , Shahid Jamal.	Chapter 8	https://www.onlinemathlearning.com/probability-tree-diagrams.html
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem	Chapter 8 & 9	https://www.mathsisfun.com/data/probability-tree-diagrams.html
		<i>Introduction to Statistics</i> , Ronald Walpole (3 rd edition)	Chapter 4	

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Reference Website
15.	Scatter Diagram and Correlation	<i>Statistics B.com part 1</i> , Shahid Jamal.	Chapter 4	http://www.shelovesmath.com/algebra/intermediate-algebra/scatterplots-correlation-and-regression/
		<i>Fundamentals of Business Statistics</i> , Hamid A. Hakeem	Chapter 6	
		<i>Basic Statistics</i> , Douglas A. Lind and Robert D. Mason.	Chapter 11	

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