



**MBARARA UNIVERSITY OF
FACULTY OF APPLIED SCIENCES AND TECHNOLOGY**

SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES AND TECHNOLOGY



**Reading References for Year One Bachelor of Computer
Engineering Program.**

Academic Year 2018/2019



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 FIRST YEAR, SEMESTER ONE

Course Code		BCE1111	Course Name		Engineering Mathematics I
No	Title		Author, Publisher		Status
1	Advanced Engineering Mathematics		C. Ray Wylie and Louis C. Barrett, McGraw Hill, New York, 1995. 6 th edition		Core
2	Advanced Engineering Mathematics		Erwin Kreyszig, John Wiley and Sons, 8th edition		
3	Theory and Problems of Vector Analysis		Murray R Spiegel, SI (Metric) edition McGraw Hill		
4	Engineering Mathematics		K. A. Stroud, 5th edition, Palgrave Macmillan, 2005		
5	Mathematics for Engineers and Scientists		Bajpai, Calus, Fairley and Walker		
6	Calculus		Edward & Penney, International edition, Prentice Hall, 2002		
7	Introduction to University Mathematics		J.L. Smyrl, Edward Arnold, 1978		
Course Code		BCE1112	Course Name		Electronics I
No	Title		Author, Publisher		Status
1	Introduction to Electronics		Earl D. Gates, 4th edition., Thomson, 2004		Core
2	Electronics 4		D. C. Green, , 3rd edition., Longman, 1995		
3	Foundations of Analog and Digital Electronic Circuits.		Agarwal, Anant, and Jeffrey H. Lang. San Mateo, CA: Morgan		



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		Kaufmann Publishers, Elsevier, July 2005. ISBN: 9781558607354.	
Course Code	BCE1113	Course Name	Information and Communications Technology
No	Title	Author, Publisher	Status
1	How to Write Proposals & Reports that Get Results	Ros Jay, Pearson-Prentice Hall, 2003	Core
2	Business Communication and Report Writing Simplified	N. A. Saleemi 1 st ed., N. A. Saleemi Publishers, 1997	
Course Code	CSCI205	Course Name	Introduction to Computer Programming
No	Title	Author, Publisher	Status
1	Sams Teach yourself C in 21 Days	Bradley, L. J and Aitken, P. (2002) (6th Edition) Sams Publishing.	Core
2	C: How to program	Deitel, P. and Deitel, H. (2012) (7th Edition) Prentice Hall.	
3	C by Example	Perry, G. (2000) (4th Edition) Que Publishing.	
Course Code	DVSI106	Course Name	Introduction to Political Economy
No	Title	Author, Publisher	Status
1	Political Economy: An Introductory Text	Edmund S. Phelps	Core
2	Patterns of Democracy: Government Forms and	Lijphart A. (1999) London, Yale University Press	



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	Performance in 36 countries. pp. 1-8 (introduction)		
3	Post-Conditionality Politics and Administrative Reform: Reflections on the Cases of Uganda and Tanzania, Development and Change	Harrison G. (2001) Vol. 32(4).	
4	The Budget and Medium Term Expenditure Framework in Uganda. World Bank: Washington	Bevan, D.L. (2001)	
5	Democracy and Democratization	Kamrava M. (2005). In Haynes, Jeffrey (edition) Development Studies. England: Palgrave Macmillan pp 67-88	
Course Code	CSC 1114	Course Name	Communication Skills
No	Title	Author, Publisher	Status
1	Messages: The Communication Skills Book	M. McKay PhD and M. Davis PhD, Mar 3, 2009	Core
2	Business Communication and Report Writing Simplified	N. A. Saleemi, 1st ed., N. A. Saleemi Publishers.	
3	I Want to Talk! : Social and Behavioural Sciences	S. S. Nezamdoost, 2014, Vol.98, pp.1346-1355	
4	The Messages Workbook: Powerful Strategies for Effective Communication at Work and Home	Martha Davis, Ph.D. Paleg. Kim, and Patrick Fanning, , Nov 2004	



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5	Communication Mosaics: An Introduction to the Field of Communication	J. T. Wood, , 2013	
6	Applying Communication Theory for Professional Life: A Practical Introduction	M. Dainton and E. D. Zellely,	
Course Code	BCE 1166	Course Name	Introduction to Computer Networks
No	Title	Author, Publisher	Status
1	An Introduction to Computer Networks	Peter L. Dordal, Loyola University Chicago (2016)	Core
2	Introduction to Networks Companion Guide	Cisco Networking Academy, 2013	
3	Computer Networking : Principles, Protocols and Practice	Olivier Bonaventure, 2014	

FIRST YEAR, SEMESTER TWO

Course Code	BCE1211	Course Name	Engineering Mathematics II
No	Title	Author, Publisher	Status
1	Theory and Problems of Differential Geometry,	Martin M. Lipschutz, McGraw-Hill, 1969	Core
2	Advanced Engineering Mathematics	C. Ray Wylie and Louis C. Barrett, 6 th edition, McGraw Hill, New York, 1995.	
3	Advanced Engineering Mathematics,	Erwin Kreyszig, 8th edition, John Wiley and Sons.	



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4	Theory and Problems of Vector Analysis,	Murray R Spiegel, SI (Metric) edition.McGraw Hill	
5	Applied Differential Equations	Murray R. Spiegel, 1981.. 3rd Edition.Prentice-Hall, Inc., Englewood Cliffs, N.J. 07632	
6	Mathematical Methods in the Physical Sciences.	Mary L. Boas, 1983. 2 nd Edition. John Wiley & Sons, INC. New York	
7	Mathematical Methods for Science Students	G. Stephenson, 1988. 2 nd Edition. Longman Group UK	
8	Differential Equations for Engineers	Thomas M. Creese and Robert M. Haralick, 1978. McGraw-Hill, N. Y. US	
9	Introduction to Ordinary Differential Equation	Shepley L. Ross, 1966. Blaisdell Publishing Company, Massachusetts, US.	
10	Worked Examples in Advanced Engineering Mathematics	L. R. Mustoe, 1988. John Wiley & Sons Ltd. Great Britain.	

Course Code	BCEI212	Course Name	Programming Methodology
No	Title	Author, Publisher	Status
1	The Art & Science of Java	Roberts, Eric S ISBN 978-0321486127.	Core
2	Karel the Robot Learns Java	Roberts, Eric S.	
3	Test Driven Development, By Example	Kent Beck, Edition I, ISBN-10: 0321146530	
Course Code	BCE 1213	Course Name	Electronics II



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No	Title	Author, Publisher	Status
1	Foundations of Analog and Digital Electronic Circuits	Agarwal, Anant, and Jeffrey H. Lang. San Mateo, CA: Morgan Kaufmann Publishers, Elsevier, July 2005. ISBN: 9781558607354	Core
2	Introduction to Electronics	Earl D. Gates, , 4th ed., Thomson, 2004	
3	Electronics 4	D. C. Green, 3rd ed., Longman, 1995	

Course Code	BCE 1214	Course Name	Computer Architecture and Organization
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No	Title	Author, Publisher	Status
1	The Essentials of Computer Organization and Architecture	Linda Null and Julia Lubor., Second Edition, Jones & Bartlett. ISBN-10: 0763737690, ISBN- 13: 978-0763737696	Core
2	Introduction to Computer Architecture and Organization	Harold Lorin, 1982., Wiley. ISBN 0471866792, 9780471866794	
3	Computer Architecture: A Quantitative Approach,	John L. Hennessy, 2002. 3rd Edition, Morgan Kaufmann, ISBN-10 / ASIN: 1558605967, ISBN-13 / EAN: 9781558605961	
4	Computer Organization and Architecture,	William Stallings, 2002. 6th edition, Prentice Hall. ISBN-10 / ASIN: 0130351199, ISBN-13 / EAN:9780130351197	
5	Computer Design and Architecture	3rd Edition Revised and Expanded CRC. ISBN: 824703685	



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6	Fundamentals of Computer Organization and Architecture (Wiley Series on Parallel and Distributed Computing), Wiley-Interscience	Mostafa Abd-El-Barr, 2004., ISBN-10 / ASIN: 0471467413, ISBN-13 / EAN: 9780471467410	
7	Essentials of Computer Architecture	Douglas E. Comer, 2004., US edition, Prentice Hall ISBN-10: 0131491792, ISBN-13: 978-0131491793	

Course Code	BCE I215	Course Name	Circuit Theory
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No	Title	Author, Publisher	Status
1	Electronic Devices and Circuit Theory	R. L. Boylestad and L. Nashelsky. 11 th Edition, 2012	Core
2	Engineering Circuit Analysis	W. Hayt and J. E. Kemmerley, 6 th edition. McGraw Hill Company.	
3	Electrical Circuit Theory and Technology	J. Bird, , Dec 14, 2013	
4	Circuit Analysis: Theory and Practice	A. H. Robbins and W. C. Miller, Jul 19, 2006.	

Course Code	DVS I203	Course Name	Political Economy of Africa and Development
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No	Title	Author, Publisher	Status
1	Political Economy: An Introductory Text	Edmund S. Phelps	Core
2	Gender Climate Change and Community Based Adaptation: A Guide for Designing and	Muthukumara M, Anil M, and Viju I (2008) UNDP (2010),	



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	Implementing Gender Sensitive Community Based Adaptation Programs and Project, UNDP		
3	Suffering in Silence? Public Visibility, Private Secrets and the Social Construction of AIDS.	Small Neil (1997)	
4	Introduction to Gender Analysis Concepts and Steps Development Bulletin. 64, pp. 100- 106.	Hunt, J. (2004)	
5	Gender Mainstreaming in Poverty Eradication and the Millennium Development Goals, the Commonwealth Secretariat, London.	Kabeer, N., (2003)	
6	The Women's Movement in Uganda. History, Challenges, and Prospects.	Trip M. and Kwesiga Joy (2002) Kampala: Fountain Publishers.	
7	Gender and Development (in Haynes, J., edition) Development Studies	Shirin M. R. (2005). England: Palgrave Macmillan pp 226 – 247	
8	Case Study Research: Design and Methods (3rd Edition)	Yin R. K. (2003) Thousand Oaks, CA Sage Publications	
9	Interviewing and Focus Groups (In Somekh B. and Lewin C.) Research Methods in the Social Sciences London	Barbour S. R. and Schostak J. (2010), Sage (pp. 41-48)	
10	Qualitative Data Analysis	Miles B. M. and Huberman A. M. (1994), London, Sage pp 1-12.	