



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 Engineering in  
Electrical And Electronics Engineering Program.**

**Academic Year 2018/2019**



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**FIRST YEAR, SEMESTER ONE**

Course Code		BCE 1111	Course Name	Engineering Mathematics I
No	Title		Author, Publisher	Status
1	Advanced Engineering Mathematics		Zill, W. S. Wright, M. R. Cullen. Jones & Bartlett Learning, 2011.	<b>Core</b>
2	Advanced Engineering Mathematics		E. Kreyszig, , Textbook and Student Solutions Manual, 2006	
3	Engineering Mathematics		J. Bird, , 5th Edition,2014	
Course Code		EEE1101	Course Name	Electricity and Magnetism
No	Title		Author, Publisher	Status
1	A Student's Guide to Maxwell's Equations		Fleisch, Daniel. Cambridge University Press. ISBN 978-0-521-87761-9, 2008	<b>Core</b>
2	Foundations of Electromagnetic Theory		J. Reitz, F. Milford, R. Christy, , 4th Ed.	
3	Basic Theoretical Physics: A Concise Overview		Krey, U.; Owen, A. Springer. ISBN 978-3-540-36804-5, 2007	
Course Code		BBA2105	Course Name	Behavior in Organisations
No	Title		Author, Publisher	Status
1	Fundamentals of Organizational Behavior: Managing People and Organizations		Ricky W. Griffin (Author), Gregory Moorhead (Author), 1st Edition	<b>Core</b>
2	Organizational Behavior		Stephen Robbins (Author), 13th Edition	
3	Organizational Behavior		Christopher P. Neck, Jeffery D. Houghton, Emma L. Murray	
Course Code		EEE1105	Course Name	Physical Electronics
No	Title		Author, Publisher	Status



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1	Physical Model Analysis during Transient for Series-Connected HVIGBTs: IEEE Transactions on Power Electronics	Shiqi, Ting, Zhao, Zhengming, Hualong and Liqiang; Nov. 2014, Vol.29 (11).	<b>Core</b>	
2	Solid State Electronic Devices	B. G. Streetman, S. K. Banerjee, , Prentice-Hall, 6th Ed.		
3	Introduction to Physical Electronics	B. Wilson, , 2010.		
4	Semiconductor Physical Electronics	Li, Sheng, , 2nd ed., 2006.		
<b>Course Code</b>		<b>BCEI113</b>	<b>Course Name</b>	<b>Information and Communications Technology</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>	
1	Introduction to Computers	Peter Norton, 6th Edition, McGraw Hill.	<b>Core</b>	
2	Information Communication Technology (ICT) Integration to Educational Curricula: A New Direction for Africa	C. U. Nwokea, , 2015		
3	Information and Communication Technology for Development	T. Unwin ICT4D: (Cambridge Learning), 2009		
<b>Course Code</b>		<b>CSCI114</b>	<b>Course Name</b>	<b>Communication Skills</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>	
1	Messages: The Communication Skills Book	M. McKay PhD and M. Davis PhD, Mar 3, 2009	<b>Core</b>	
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		



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4	The Messages Workbook: Powerful Strategies for Effective Communication at Work and Home,	Martha Davis, Ph.D. Paleg. Kim, and Patrick Fanning, Nov 2004		
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. Zelley		
<b>Course Code</b>		<b>DVSI 106</b>	<b>Course Name</b>	<b>Introduction to Political Economy</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>		<b>Status</b>
1	Political Economy: An Introductory Text	Edmund S. Phelps		<b>Core</b>
2	Democracy and Democratization	Kamrava M. In Haynes, Jeffrey (ed) Development Studies. England: Palgrave Macmillan pp 67-88. 2005		
3	Gender Mainstreaming in Poverty Eradication and the Millennium Development Goals, the Commonwealth Secretariat, London.	Kabeer, N., (2003)		
4	International Development Studies East-Asia Focus: Part I: Making our Framework	Patrick S. Jan 24, 2015		
5	Gender and Development (in Haynes, J.,ed) Development Studies	S. M. R. England: Palgrave Macmillan, 2005. pp 226 - 247		



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**FIRST YEAR, SEMESTER TWO**

Course Code		BCE 1211	Course Name	Engineering Mathematics II
No	Title	Author, Publisher		Status
1	Engineering Mathematics	Ganesh & Balasubramanian, -II.2nd ed. 2011. ISBN: 9788122432626.		<b>Core</b>
2	Elementary Differential Equation	E.d. rainville. P.E & R.E Bedient,. Prentice Hall, 8th edition		
3	Higher Engineering Mathematics	Dr. B.S. Grewal,. Khanna Publications		
4	Differential Equations	Ross Wiley India. 3rd Ed.		
5	A textbook of Applied Mathematics	P.N. & J.N. Wartikar. Volume I & 2. Pune vidyarthi Griha.		
6	Advanced Engineering Mathematics	Erwin Kreyszing. wiley India 8th Ed.		
7	Elementary linear algebra with applications	H. Anton, (9th Edition), Wiley- India (2008).		
Course Code		EEE1207	Course Name	Circuit Theory
No	Title	Author, Publisher		Status
1	Electronic Devices and Circuit Theory	R. L. Boylestad and L. Nashelsky., 11th Edition, 2012		<b>Core</b>
2	Engineering Circuit Analysis	W. Hayt and J. E. Kemmerley, , 6th ed. 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.		



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Course Code		CSCI205	Course Name		Introduction to Computer Programming	
No	Title		Author, Publisher		Status	
1	C: How to program		Deitel, P. and Deitel, H. (2012), 7th Ed. Prentice Hall		Core	
2	Starting out with C++		Tony Gaddis PENRAM International Publishing (India).			
3	Introduction to Programming with C++		Y. Daniel Liang, 3rd Edition, 2013			
4	Object Oriented Programming Using C++		Joyce Farrell, Course technology			
Course Code		EEE1209	Course Name		Digital Electronics	
No	Title		Author, Publisher		Status	
1	Digital systems		Ronald J. Tocci, Gregory L. Moss, Neal S. Widmer, 10th Edition Pearson Education Inc., 2007.		Core	
2	Digital Electronics: A Practical Approach		W. Kleitz, , 8th Edition, Mar 22, 2007			
3	Digital fundamentals		Thomas L. Floyd, 9th edition. Pearson Prentice Hall, 2006.			
4	Digital Electronics: A Practical Approach with VHDL		W. Kleitz, , 9th Edition, 2011			
Course Code		EEE1201	Course Name		Thermodynamics	
No	Title		Author, Publisher		Status	
1	Applied Thermodynamics for Engineering Technologies		Eastop, T.D., Mc Conkey, A., , 5th Edition, Dorling Kindersley Pvt Ltd.		Core	



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2	Essential Thermodynamics: An undergraduate textbook for chemical engineers	A. Z. Panagiotopoulos, 2011		
3	Thermodynamics,	Arora, C.P., 13th Edition, McGraw-Hill		
4	Thermodynamics: An Engineering Approach with Student Resources	Y. Cengel and M. Boles, , 2010		
<b>Course Code</b>		<b>EEI301</b>	<b>Course Name</b>	<b>Workshop Practice</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>	
1	Electrical Engineering; Principles and Applications	Allan R. Hambley, 5th ed. Prentice Hall, 2010.	<b>Core</b>	
2	Industrial Wiring	Morris Knowles, Schwarz Press, July 2008.		
3	Introduction to Highway Hydraulics	US department of Transportation.		
4	Maintenance Engineering Handbook	Keith Mobley, 7th Edition by, McGraw-Hill.		
<b>Course Code</b>		<b>EEE1202</b>	<b>Course Name</b>	<b>Technical Report Writing</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>	
1	Technical Report Writing	D. Riordan and S. E. Pauley Today, Dec 7, 2004	<b>Core</b>	
2	Just the Facts: Investigative Report Writing	M. Biggs, , 4th Edition, 2011		
<b>Course Code</b>		<b>BME1202</b>	<b>Course Name</b>	<b>Engineering Drawing</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>	
1	The Mechanical Engineering Drawing Desk Reference: Creating and	P. Green, 2007	<b>Core</b>	



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	Understanding ISO Standard Technical Drawing,		
2	Textbook of Engineering Drawing	V. Reddy, 2nd ed., BS publications, 2008.	
3	Engineering Graphics with Auto CAD	Sharma and N. Kumar, 2002.	