



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



Reading References for Year One Bachelor of Science in Biomedical 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	Introductory Mathematics for Engineering Applications	K. S. Rattan and N. W. Klingbeil., 2014		Core
2	Engineering Mathematics	K. A. Stroud and D. J. Booth,; 7th Edition, 2013		
3	Elementary Differential Equations and Boundary analysis	Richard C. Diprima, 2002.		
4	Textbook of Engineering Mathematics.	Jaggi, V.P and A.B Mathur,		
Course Code		BME1102	Course Name	Basic Electrical & Electronics Engineering
No	Title	Author, Publisher		Status
1	Electrical Engineering Fundamentals	V. Deltoro,. Pearson Education.		Core
2	Introduction to Electrical Engineering,	M.S.Naidu. S. Kamakshaiah, Tata McGraw Hill		
3	Electronics: Basic, Analog, and Digital with PSpice	N. H. Sabah, 2009		
4	Electrical Technology	E. Hughes, 7th ed. Pearson Education.		
5	Electrical Circuits.	J. A. Edminster: Schaums outline series. Tata McGraw Hill		
6	Electric Machinery	Dr. P.S. Bimbhra., Khanna Publishers. (Revised edition).		
7	Engineering Circuit Analysis	William Hayt, Kemmerly, Durbin: Tata McGraw Hill (Sixth edition).		
Course Code		BME1103	Course Name	Applied Chemistry
No	Title	Author, Publisher		Status
1	Applied Chemistry: A Textbook for Engineers and Technologists	O. Roussak and H. D. Gesser., 2012		Core



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2	The Chemistry Maths Book	E. Steiner, 2008		
3	General, Organic, and Biochemistry: An Applied Approach	J. Armstrong, 2014		
Course Code		BME1104	Course Name	Applied Physics I
No	Title	Author, Publisher	Status	
1	Applied Physics	D. Ewen and N. Schurter, (9th Edition), 2008	Core	
2	Concepts of Modern Physics	A. Beiser. Tata Mcgraw Hill.		
3	Physics,	J. D. Cutnell and K. W. Johnson. 2009.		
Course Code		BCE1113	Course Name	Information and Communications Technology
No	Title	Author, Publisher	Status	
1	Introduction to Computers	Peter Norton, 6th Edition, McGraw Hill.	Core	
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		
Course Code		CSCI114	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. Zellej,		
Course Code		DVSI 106	Course Name	Introduction to Political Economy
No	Title	Author, Publisher		Status
1	Political Economy: An Introductory Text	Edmund S. Phelps		Core
2	Democracy and Democratization. In Haynes, Jeffrey (ed) Development Studies	Kamrava M. 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	Gender and Development (in Haynes, J.,ed) Development Studies	S. M. R. England: Palgrave Macmillan, 2005. pp 226 - 247		

FIRST YEAR, SEMESTER TWO

Course Code		BCE 1211	Course Name	Engineering Mathematics II
No	Title	Author, Publisher		Status
1	Engineering Mathematics-II.2nd ed.	Ganesh & Balasubramanian, 2011. ISBN: 9788122432626.		Core
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.		



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7	Elementary linear algebra with applications	H. Anton, (9th Edition), Wiley- India (2008).		
Course Code		BME1202	Course Name	Engineering Drawing
No	Title	Author, Publisher		Status
1	Elementary Engineering Drawing	N.D Bhatt, Charotar Publishing house.		Core
2	Mastering auto CAD	G.Omura by Sybers (Autodesk Press), Wiley India.		
3	Technical Drawing	F. E. Giesecke and A. E. Mitchell. (13th Edition), 2008		
4	Technical Drawing with Engineering Graphics	F. E. Giesecke and I. L. Hill. 14th Ed. 2011		
Course Code		BME1203	Course Name	Biochemistry
No	Title	Author, Publisher		Status
1	Textbook of Biochemistry With Clinical Correlations	T. M. Devlin, 2010.		Core
2	Biochemistry	Satyanarayana., Mar 9, 2014		
3	Biochemistry	F.B. Armstrong, 3 rd edition. Oxford university press, New-York.		
4	Lehninger Principles of Biochemistry	David L. Nelson, 2012. 6th edition., ISBN-13: 978-142923414		
5	Biochemistry	Denise R. Ferrier PhD, (Lippincott Illustrated Reviews Series), 2013		
6	Biochemistry	Jeremy M. Berg, John L. Tymoczko & Lubert Stryer, , 7th ed., 2010		
Course Code		BME1204	Course Name	Applied Physics II
No	Title	Author, Publisher		Status
1	Applied Physics-II.	M. Karkare and R. Bahuguna. Third Edition, 2013		Core
2	Fundamentals of Physics	Holliday Resnick, 6th ed., white India.		
3	Fundamentals of optics	Jenkins & white Me Graw-Hill Int.		
4	Understanding Physics	Cummins, Wiley India		



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Course Code		CSC1205	Course Name	Introduction to Computer Programming-Java
No	Title	Author, Publisher		Status
1	Computer Systems: A Programmer's Perspective	R. E. Bryant and D. R. O'Hallaron, (2nd Edition), 2010		Core
2	Introduction to Java Programming	Y. D. Liang, Comprehensive Version (9th Edition), 2012		
3	Java Methods: Object-Oriented Programming and Data Structures	M. Litvin and G. Litvin, 2015		
4	Computing Concepts with Java 2 essentials	Cay Horstmann, , 2nd ed., Wiley India ISBN 81-265-0931-9		
5	Programming with JAVA Primer	Balagurusamy, 3rd ed., Tata McGraw-Hill,ISBN 0-07-061713-9		
6	The Complete reference JAVA	Herbert Schildt, 7th ed., Tata McGraw-Hill, ISBN 0-07-063677-X.		
Course Code		BBA1209	Course Name	Entrepreneur Development & Business Ethics
No	Title	Author, Publisher		Status
1	Entrepreneurial Management in Small Firms	I. Chaston,, 2009		Core
2	Business Ethics: Managing Corporate Citizenship and Sustainability in the Age of Globalization	A. Crane and D. Matten, 2010		
3	Entrepreneurship	R. Hisrich and M. Peters, 2012		
Course Code		BME1205	Course Name	Engineering Mechanics
No	Title	Author, Publisher		Status
1	Engineering Mechanics: Statics & Dynamics	R. C. Hibbeler, (13th Edition), 2012		Core
2	Mechanics of Composite Materials	R. M. Christensen and Engineering, (Dover Civil and Mechanical Engineering), 2005.		
3	Engineering Mechanics: Statics and dynamics	Lakshamana rao, (2003).		



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