



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

**SCIENCE AND TECHNOLOGY**

**FACULTY OF APPLIED SCIENCES AND TECHNOLOGY**



**Reading References For First Year Bachelor Of Petroleum  
Engineering And Environmental Management Program.**

**Academic Year 2018/2019**



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**FIRST YEAR SEMESTER ONE**

Course Code		PEEM1101	Course Name	Foundations in Engineering
No	Title	Author, Publisher		Status
1	Oil and Gas Production in a Nontechnical Language	Raymond, M. and Leffler, W., 2006. Penn Well Corp., Tulsa, Oklahoma		<b>Core</b>
2	Oil & Gas Production in Nontechnical Language	Martin S. Raymond and W. L. Leffler, , 2005		
3	The Messages Workbook: Powerful Strategies for Effective Communication at Work and Home	Martha Davis, Ph.D. Paleg. Kim, and Patrick Fanning, , Nov 2004		
4	Non-technical guide to Petroleum Geology, Exploration, Drilling and Production	Hyne. N.2001. Penn Well Corp., Tulsa, Oklahoma, 2nd edition.		
Course Code		BCE 1111	Course Name	Engineering Mathematics I
No	Title	Author, Publisher		Status
1	Advanced Engineering Mathematics	D. Zill, W. S. Wright, M. R. Cullen. Jones & Bartlett Learning, 2011.		<b>Core</b>
2	Engineering Mathematics	Stroud KA, 5th Edition, Palgrave, 2001. ISBN: 0333919394, Joule Library 510/STR		
3	Modern Engineering Mathematics	James G, 3rd Edition, Addison-Wesley, 2001. ISBN: 0130183199, Joule Library 510/JAM		
4	Advanced Engineering Mathematics	E. Kreyszig , Textbook and Student Solutions Manual, 2006		
5	Engineering Mathematics	J. Bird, 5th Edition, 2014		



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6	Statistical Procedures for Analysis of Environmental Monitoring Data and Risk Assessment	E.A. McBean and F.A. Rovers , Prentice-Hall, ISBN 0136750184		
<b>Course Code</b>		<b>PEEMI102</b>	<b>Course Name</b>	<b>Applied Physics</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>		<b>Status</b>
1	University Physics	Hugh D. Young, Roger A. Freedman, Lewis Ford, Addison Wesley, ISBN: 9780805321876		<b>Core</b>
2	College Physics (OpenStax College	Urone, P. and Hinrichs, R. (2013)		
3	Physics Principles with Applications	Giancoli, D. C. (2005), 6th ed. (Pearsons/Prentice Hall)		
<b>Course Code</b>		<b>PEEMI103</b>	<b>Course Name</b>	<b>Applied Biodiversity</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>		<b>Status</b>
1	Biodiversity	Leveque, C. & J. Mounolou (2003). New York: John Wiley. ISBN 0-470-84957-6		<b>Core</b>
2	The Biodiversity Crisis: Losing What Counts	Novacek, M. J. (ed.) (2001). New York: American Museum of Natural History Books. ISBN 1-56584-570-6		
3	Global Biodiversity Change: The Bad, the Good, and the Unknown	Pereira, H. M.; Navarro, L. M.; Martins, I. S. S. (2012). "Annual Review of Environment and Resources 37: 25.		
4	Reaction Time: Climate Change and the Nuclear Option	Ian Lowe, (2007),. Kluwer Publishers		
5	Renewable Energy Sources and Climate Change Mitigation.	United Nations Inter-Governmental Panel on Climate Change (2010), UNEP Publications Barrow (1997).		



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6	Ecology of Individuals, Populations and Communities. Boston	Begon Michael et al., (1990). : Blackwell Scientific Publications	
7	Developing the Environment: Problems and Management	Barrow (1997). . London: Longmans.	
8	Environmental Impact Assessment Training Manual. African Development Bank.	UNEP. (1998). (2003). Integrated Environmental and Social Impact assessment Guidelines.	
9	Guidelines for Environmental Impact Assessment in Uganda.	Government of Uganda. (1997).	
10	The Environmental Impact Assessment Regulations for Uganda.	Government of Uganda. (1998.	
11	Environmental Audits. Government Institutes, Inc.	Cahill, L.B and Kane R.W. (1987).	

<b>Course Code</b>	<b>PEEM1104</b>	<b>Course Name</b>	<b>Introduction to Petroleum Engineering.</b>
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<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>
1	Reservoir Engineering Handbook'	Tareq Ahmed, 2001	<b>Core</b>
2	The Properties of Petroleum Fluids'	William D. McCain.	
3	Oil & Gas Production in Nontechnical Language	Martin S. Raymond and W. L. Leffler, , 2005	
4	Non-technical guide to Petroleum Geology, Exploration, Drilling and Production.	Hyne. N.2001. Pennell Corp., Tulsa, Oklahoma, 2nd edition.	
5	Oil and Gas Production in a Nontechnical Language	Raymond, M. and Leffler, W., 2006.. PennWell Corp., Tulsa, Oklahoma	

<b>Course Code</b>	<b>BCEI113</b>	<b>Course Name</b>	<b>Information &amp; Communication Technology</b>
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<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>
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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, Cambridge Learning	T. Unwin ICT4D:, 2009		
<b>Course Code</b>		<b>CSC1114</b>	<b>Course Name</b>	<b>Communication Skills</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>	<b>Status</b>	
1	The Communication Skills Book	M. McKay PhD and M. Davis PhD, Messages: 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		
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	Effective Communication in Organisations	Fielding, M. (1997) 2nd ed. Kenwyn: Juta +Co		
7	An Introduction to Intercultural Communication: Identities in a Global Community	Jandt, F.E. (2004) 4th ed. London: Sage Publications.		



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8	The Art of Public Speaking	Lucas, S.E. (2004) 8th ed. McGraw Hill	
9	Business and Professional Communication	DiSouza, J.R and Leggie N.J. (2000) 2nd ed. Kenywyn: Juta +Co.	
<b>Course Code</b>		<b>DVSI106</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	Kabeer, N., (2003), the Commonwealth Secretariat, London.	
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	
6	Geographies of Developing Areas	Williams, G., Meth, P. & Willis, K. 2014, 2nd edn. Routledge, London.	
7	The lie of the land, challenging received wisdom on the African environment,	Melissa Leach & Robin Mearns (Eds) (1996)	
8	Africa unchained, the blueprint for Africa's future	George B.N. Ayittey (2005);,	
9	Towards a New Map of Africa.	Wisner, Toulmin & Chitiga (ed.) 2005:	



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**FIRST YEAR SEMESTER TWO**

Course Code		PEEM1201	Course Name	Applied Geology	
No	Title		Author, Publisher		Status
1	Physical Geology		C. Plummer and D. Carlson, , 2012		<b>Core</b>
2	Laboratory Manual in Physical Geology		(9th Edition), 2011, AGI AGI-American Geological		
3	An Introduction to Physical Geology		Edward J. Tarbuck and Frederick K. Lutgens, Earth: (10th Edition), 2010.		
4	Essentials of Geology		Marshak, Stephen. 2009. - Third Edition, W. W. Norton & Co., NY. ISBN: 978-0-3-9393238-6.		
5	Earth:, An Introduction to Physical Geology		Tarbuck & Lutgens (11th edition)		
6	Earth's Dynamic Systems		Web Edition 1.0 by E. H. Christiansen		
7	Principles of Engineering Geology		K. M. Bangar, ISBN: 8180141152. 2.		
	Physical Geology		Anatole Dolgoff, Houghton Mifflin Harcourt, ISBN: 9780669463118		
Course Code		BCE 1211	Course Name	Engineering Mathematics II	
No	Title		Author, Publisher		Status
1	Engineering Mathematics		Ganesh & Balasubramanian, -11.2nd ed. 2011. ISBN: 9788122432626.		<b>Core</b>
2	Elementary linear algebra with applications		H. Anton, (9 th Edition), Wiley- India (2008).		
3	Advanced Engineering Mathematics		9th edition by E. Kreyszig, Wiley, 2006		



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4	Elementary Differential Equation	E.d. rainville. P.E & R.E Bedient,. Prentice Hall, 8th edition	
5	Advanced Engineering Mathematics	Peter V. O'Neil and part of "Calculus" by James Stewart, both published by Thompson Learning Inc., 2004	
6	Higher Engineering Mathematics	Dr. B.S. Grewal,. Khanna Publications	
7	Applied Mathematics	P.N. & J.N. Wartikar. Volume I & 2. Pune vidyarthi Griha.	

Course Code	PEEM1203	Course Name	Environmental Toxicology
No	Title	Author, Publisher	Status
1	Principles of Sound Ecotoxicology. Environ. Sci. Technology	Catherine A. Harris, Alexander P. Scott, Andrew C. Johnson, Grace H. Panter, Dave Sheahan, Mike Roberts, John P. Sumpter (2014):., Article ASAP, DOI: 10.1021/es4047507	<b>Core</b>
2	Office of Chemical Safety and Pollution Prevention.	Agency, United States Environmental Protection. "" 5 October 2011. U.S Environmental Protection Agency. 9 December 2011.	
3	Ecotoxicology: A Comprehensive Treatment. Boca Raton	Newman MC, Clements WH (2008), FL :CRC Press ISBN: 9780849333576	
4	Metal Contamination in Aquatic Environments	Luoma SN, Rainbow PS (2008). Cambridge University Press.	
5	Introduction to Ecotoxicology	Connell, Des et al. (1999). Blackwell Science. ISBN 0-632-03852-7	





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6	Lipids in Freshwater Ecosystems	Arts, Michael T. and Bruce C. Wainman, eds.. New York, N.Y.: Springer, c1999. 319 ISBN: 0387985050.		
7	Fish Ecotoxicology (EXS; 86). Basel, Switzerland; Boston	Braunbeck, T., D.E. Hinton, and B. Streit, eds., Mass.: Birkhäuser Verlag, 1998. ISBN: 081765819X (U.S.).		
8	Environmental Toxicology and Chemistry	Crosby, Donald G. New York, N.Y.: Oxford University Press, 1998. ISBN: 0195117131.		
9	The Basic Science of Poisons	Klaassen, ed. Casaret and Doull's Toxicology:. 5th edition. New York, NY: McGraw-Hill, c1996. ISBN: 0071054766		
10	Toxicants in the Aqueous Ecosystem	Crompton, T.R. Chicester, U.K.; New York, N.Y.: John Wiley & Sons, c1997. ISBN: 047197272X.		
11	Petroleum Microbiology	Atlas, R. M. (ed.) (1984). Macmillan Publishing Company, New York.		
12	Occupational and Environmental Safety Engineering and Management	Kavianian, Hamid R. "", Van Norstrand Reinhold Company, New York (1990), ISBN 0-442-23822-3		
<b>Course Code</b>		<b>PEEM1204</b>	<b>Course Name</b>	<b>Applied Chemistry</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>		<b>Status</b>
1	"Basic Chemistry	William S. Seese / G. William Daub, seventh edition (alternate ed., soft cover)		<b>Core</b>



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2	Principles of Physical Chemistry	Samuel H. Maron by Carl F. Maron & Prutton ASIN: B000RRO9N0 1967		
3				
4	Analytical Chemistry	G. D. Christan, ISBN: 0471214728		
5	Petroleum Geochemistry and Geology	John Hunt, ISBN: 0716724413		
6	Experiments in Physical Chemistry	Garland & Shoemaker ASIN		
<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	Fundamentals Of Engineering Drawing: With An Introduction To Interactive Computer Graphics For Design And Production	Warren J. Luzjader ISBN: 9788120308855		<b>Core</b>
2	Elementary Engineering Drawing	Bhatt, N D ISBN: 9788185594316		
3	The Elements of Solid Geometry	Baker, Arthur Latham.. Boston, MA: Ginn and Co., 1893.		
4	A first year Engineering Drawing	A. C. Parkinson, ASIN: B000S6CBPI		
5	The Fundamentals of Engineering Drawing: With an Introduction to Interactive Computer Graphics for Design and Production	Warren J. Luzadder, Jon M. Duff, ISBN: 0133350509		
6	Auto CAD	Release Ver. 30 for Practical Purpose		
<b>Course Code</b>		<b>DVS 1203</b>	<b>Course Name</b>	<b>Political Economy of Africa and Development</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>		<b>Status</b>
1	Gender Climate Change and Community Based Adaptation: A Guide for Designing and Implementing Gender	UNDP (2010),		<b>Core</b>



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	Sensitive Community Based Adaptation Programmes and Project, UNDP.			
2	Interviewing and Focus Groups	Barbour S. R. and Schostak J. (2010) (In Somekh B. and Lewin C.)		
3	Research Design: Quantitative, Qualitative and Mixed Method Approaches	Creswell J. W. (2009) (2nd Ed) Thousand Oaks, CA Sage Publications		
4	Gender and Development	Shirin M. R. (2005) (in Haynes, J.,ed) Development Studies. England: Palgrave Macmillan pp 226 – 247		
5	Research Methods in the Social Sciences, London	Sage (pp. 41-48)		
<b>Course Code</b>		<b>CSCI205</b>	<b>Course Name</b>	<b>Introduction to Computer Programming</b>
<b>No</b>	<b>Title</b>	<b>Author, Publisher</b>		<b>Status</b>
1	C: How to program	Deitel, P. and Deitel, H. (2012), 7th Ed. Prentice Hall		<b>Core</b>
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		