

برنامج التصميم وهندسة الانتاج – قائمة المراجع للمقررات الدراسية بالبرنامج

NO.	Code		Name	Reference
01	PHM	011	Mathematics (1)	E.W. Swokowski, M. Olinick and others, "Calculus", PWS Publ. Co., Eighth Ed., 2002 or any subsequent edition.
				J.Stewart, "Single Variable Calculus", Brooks/Cole Publ. Co., Eighth Ed., 2018 or .any subsequent edition
02	PHM	021	Physics (1)	Physics for Scientists and Engineers with Modern Physics, by R.A. Serway and J. W. Jewett, 8thEd. (2010). Published by Brooks-Cole.
				Fundamentals of Physics, by D. Halliday and R, Resnick, John Wiley, 7th d.(2007).
03	PHM	031	Mechanics (1)	Beer F., Johnston R. and Claysen W., " Vector Mechanics for Engineering ", McGraw (Hill, 9th Edition, 2017.(Dynamics
				Hibbeler R., " Engineering Mechanics: Dynamics ", 10th Edition, 2006. Riley W. and Sturges L., " Engineering Mechanics: Dynamics ".
04	PHM	041	Chemistry	Petrucci (General Chemistry) 4 th Ed. Pearson. (2005)
05	MDP	021	Engineering Drawing & Projection	Thomas, E.F., “Fundamentals of Engineering Drawing”, McGraw-Hill, 2004
				Thomas, E.F. and Vierck, C.J., “Engineering Drawing and Graphic Technology”, McGraw-Hill, 2001
				Hart, K.R., “Engineering Drawing”, The English Universities Press Ltd, 2003
06	MDP	022	Production Technology & Engineering History	Kalpakjian, Manufacturing Engineering and Technology, Addison-Wesley Publishing Company, 1995
				Fred Waters, Fundamentals of Manufacturing for Engineers, Taylor & Francis
				Singer, C. Holmyard, E. J. and Hill, A. R., History of Technology, Oxford university press, London, 1975
07	CSE	011	Computer Technology	-----
08	HUM	X11	Technical English Language	-----

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09	PHM	112	Mathematics (2)	E.Kreyszig, "Advanced Engineering Mathematics", John Wiley & Sonds,
				E.W. Swokowski, M. Olinick and others, "Calculus", PWS Publ. Co., Eighth Ed., 2002 or any subsequent edition.
10	PHM	122	Physics (2)	Physics for Scientists and Engineers with Modern Physics by Serway and Jewett, 8th edition, Brooks Cole Publishing, 2010
				Engineering Electromagnetics by William H. Hayt and John A. Buck, 6th edition, McGraw Hill Companies, 2010.
				Halliday-Resnick-Walker-Fundamentals of Physics - 9 th Edition Extended
11	PHM	132	Mechanics (2)	J.L.Meriam & L.G.Kraige, "Engineering Mechanics (Statics & Dynamics)", John Wiley and Sons
				Irving Shames, "Engineering Mechanics (Statics & Dynamics)", Prentice Hall
				R.C.Hibbler, "Engineering Mechanics (Statics & Dynamics)", Macmillan
				F.P.Beer & E.R.Johnston,Jr. , "Vector Mechanics For Engineers (Statics
				& Dynamics)", McGraw Hill
12	MDP	111	Manufacturing Technology (1)	Serope Kalpakjian Manufacturing Engineering Technology, Addison Wesley Publishing co. .2020
				Walker, John R., Machining Fundamentals, The Goodheat Willcos Co., 1993.
				Kalpakjian, S., Manufacturing Engineering and technology, Addison Wesley Publishing Co., 1995.
				Krar, S. F., Technology of Machine Tools, McGraw Hill Co., 2010
				Groover, Mikell P., Fundamentals of Modern Manufacturing, Prentice Hall Int., 1996.

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13	MDP	131	Materials Engineering & Testing	W. D. Callister, Materials Science and Engineering, 6th edition, Wiley, 2002.
				M. F. Ashby and D. R. H. Jones, Engineering Materials II: An Introduction to Microstructures, Processing, and Design
				أحمد سالم الصباغ , هندسة المواد - الجزء الأول: الميتالورجيا الفيزيائية، عالم الكتب للنشر
				أحمد سالم الصباغ , هندسة المواد – الجزء الثاني: الاختبارات، عالم الكتب للنشر
				Donald R. Askeland, “The Science and Engineering of Materials”, PWS publishing company, 1994
				William D. Callister, “Materials Science and Engineering- An Introduction”, John Wiley and Sons Inc., 1985
				James F. Shachelford., “Introduction to Materials Science for Engineers”, Pearson Prentice Hall, 2004
				Lawrence H. Van Vlack, “Materials for Engineering- Concepts and Applications”, Addison-Wesley Publishing company, Inc, 1982
				Harmer E. Davis, George Earlc Troxell, “The Testing and Inspection of Engineering Materials”, McGraw-Hill Book Company, 1955
14	MDP	161	Machine Drawing	Hart K. R., “ Engineering Drawing with Problems and Solutions”, Clark Constable Ltd. Edinburgh (1982).
				Gierges F., “ Technical Drawing”, Machmilan Publisher (1986).
				Thomas E. F., “ Fundamental of Engineering Drawing”, McGraw Hill. (2004).
15	MEP	111	Thermodynamics (1)	Yunus A. Cengel and Michael A. Boles, “Thermodynamics: an engineering approach”, 5th edition, New York: McGraw-Hill, ISBN 0-07-288495-9.

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16	CES	112	Theory of Structures	David Beer, and David McMurrey, A Guide to Writing as an Engineer, 3rd edition, John Wiley & Sons, Inc., 2009.
17	EPM	112	Electrical & Electronic Engineering	
18	HUM	X12	Technical Report Writing	
19	MDP	211	Manufacturing Technology (2)	M. Lal – O. P. Khanna, 1979, Text Book of Foundry Technology,
				John Campell, Casting, 2nd edition, Butterworth-Heinemann 2003
				Killing, R. Welding Processes and Thermal Cutting, English Edition Band 1 (2001), 192 Seiten
				265 Bilder, 40 Tabellen, ISBN:3-87155-790-0
				أحمد سالم الصباغ، هندسة لحام المعادن، عالم الكتب، 998
				أحمد سالم الصباغ، هندسة المواد – الجزء الثاني: الخواص الميكانيكية، عالم الكتب للنشر
				Radaj, D. Welding residual stresses and distortion calculation and measurement English
				Edition Band 2, (2003) 415 Seiten, 410 Abbildungen, ISBN: 3-87155-791-9
				Materials Handbook, v. 15 – casting, ASM Int., USA, 1998
20	MDP	221	Stress Analysis	Beer,F.B. & Johnston,E.R. "Mechanics of Materials" , McGraw-Hill Book Company, 1992.
				Popov,E.P., "Mechanics of Materials" , Prentice Hall Int., London, 1978
21	MDP	251	Mechanics of Machines (1)	Hannah, J., Mechanics of Machines, British Library, 1984

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				Mobie, H. H., Mechanics and Dynamics of Machinery, John Wiley and Sons, 1987
22	MDP	252	Machine Construction	J.E. Shigly, "Mechanical Engineering Design", 7th Edition, metric edition, McGRAW-HILL, 2000.
				P. Orlove, "Fundamental of Machine Design", MIR Publisher, 1977
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23	MEP	212	Thermodynamics (2)	Yunus A. Cengel and Michael A. Boles, " <i>Thermodynamics: an engineering approach</i> ", 5th edition, New York: McGraw-Hill, ISBN 0-07-288495-9, 2006
				Borgnakke, Claus, and Richard E. Sonntag, " <i>Fundamentals of Thermodynamics</i> ", Wiley Global Education, 8 th edition, 2016. ISBN-13: 978-1118131992.
24	MEP	221	Heat & Mass Transfer	Fundamentals of heat and mass transfer, 6th ed." by Incropera and DeWitt, Wiley, 2006
25	MEP	231	Fluid Dynamics	Bruce R. Munson, Donald Young and Theodore H. Okiishi "Fundamentals of Fluid Mechanics" , Fifth Edition, John Wiley & Sons Inc., 2006.
				Streeter, V.L., Wylie, E. B., and Bedford, K. W., " Fluid Mechanics " Ninth Edition , McGraw Hill, N.Y., 2005
				Frank M. White, "Fluid Mechanics" Third Edition, McGraw Hill Inc., 2010
				Philip M. Gerhard, Richard J Gross and John I. Hochstein, "Fundamentals
26	MEP	281	Measurements	Holman, J.P., "Experimental Methods for Engineers", McGraw Hill, 1990
				Sawhney, A.K., " A Course in Mechanical Measurements and Instrumentation", Dhanpat and Sons, Delhi, 1989 Instrumentation", Dhanpat and Sons, Delhi, 1989
				Doebelin, Ernest O., " Measurements Systems Application and Design", McGraw Hill, 1990

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27	EPM	212	Electrical Engineering	B.S. Guru, "Electric Machinery and Transformers", Oxford Uni. Press, 2001
				C. Hubbert , "Electric Machines “ , Maxwell Macmillan , 1991
28	HUM	X31	Engineering Economy	Blank, L. and Tarquin, A. "Engineering Economy", 7 th edition, 2012
29	MDP	321	Manufacturing Technology (3)	E. Paul DeGarmo, Materials and Processes in Manufacturing, John Wiley & Sons Inc, 2005
30	MDP	322	Work Study	International Labour office, Introduction to work study, 3 rd Ed., International Labour office, Geneva, 1997
31	MDP	323	Quality Systems - Elective (1) : 391	Juran, J.M. and Gryna, F.M. "Quality Planning and Analysis",TATAMc-Graw-Hill Book Co., 1970
				Gryna, F.M., "Quality Planning and Analysis" From Product Development through use, 4th Edition, McGraw Hill, 2001
				Suganthi, L and Samuel, A.A. "Total Quality management". Prentice-Hall of India, 2005
32	MDP	324	Reliability Engineering - Elective (1) : 391	Michael Beasley, "Reliability for Engineers",Macmillan Education Ltd.,1991
				Carter, A.D.S., "Mechanical Reliability", Macmillan,1996
				Stephen P. Robins,David A. DeCenzo,"Fundamentals of Management", Pearson Prentice Hall, 2005, 5th Ed.
33	MDP	325	Quality of Service Industries - Elective (1) : 391	Grant,E.L., "Statistical Quality Control", McGraw Hill, New York, 1996
				Motgomery, D. C., "Introduction to Statistical Quality Control", John Wiley and Sons, N.Y., 1997 Wiley and Sons, N.Y., 1997
34	MDP	341	Measuring Instruments	Koura,M.,Rizk,A.and AwadMA.,MeasuringIntruments,Elhakeempres,2010

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35	MDP	352	Mechanics of Machines (2)	Singiresu S. Rao, "Mechanical Vibrations", Addison-Wesley
				William T. Thomson, "Theory of Vibration with Applications", Prentice Hall
				Daniel J. Inman, "Engineering Vibration", Prentice Hall
				Leonard -- Meirovitch, "Elements of Vibration Analysis", McGraw-Hill
36	MDP	353	Automatic Control	Srivinas, D. and Richard, N., Sequential Logic Testing and Verification, Kluwer Academic Publishers, 1991
				Lala, Parag K., Practical Digital Logic Design and Testing, Prentice Hall, 1995
				Ozbay, H., Introduction to Feedback Control Theory, CRC Press, 1999
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37	MDP	361	Machine Design	Shigley, J.E., Mechanical Engineering Design, 8th Edition, McGraw Hill, 2008, Budynas-Nisbett, ISBN 0-390-76487-6

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				Shigley, J.E., Mischke, C.R. and Budynas, R.G., Mechanical Engineering Design, 7th Edition, McGraw Hill, 2004, ISBN 0-07-292193-5
				Madsen, D.A., Madsen, D.P. and Turpin, J.L., "Engineering Drawing and Design", 4th Edition, Thomson Delmar Learning, 2007
38	MDP	371	Theory of Metal Cutting	Stephenson, D. A. & Agapiou, " Metal Cutting Theory & process"
				Shaw, M. C. " Metal Cutting Principles " Technology Press MIT
				Boothroyd, D. " Fundamentals of Metal Machining & Machine tools", McGraw Hill Co
39	MDP	372	Machines of Metal Cutting & Forming	Acherkan N.S. Machine tool Design, vd, 1,2,3,4 Mir Publishers, Moscow, 1968
				Call no.:621.902.AM
				Koenigsbenger F. Design Principles of Metal cutting Machine tools. The Machine tools. The Macmillan co., 1964
40	MDP	381	Theory of Metal Forming	Handbook of Die Design 2nd Edition 20062Ivan200202006
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41	HUM	X21	Management & Marketing	Rowe, G.W., "An Introduction to the Principles of Metalworking". Edward Arnold, London, 1965
				W. D. Perreault, Jr. and E. J. McCarthy, Basic Marketing: A Global-Managerial Approach, 14th ed., Irwin/McGraw-Hill
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				F. LauranceBennett,P.E., “The Management of Engineering”, John Wiley & Sons, Inc. , 1996
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42	MDP	422	Quality Control	Grant, E.L., "Statistical Quality Control", McGraw Hill, New York, 1996
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43	MDP	423	Facilities Planning	Francis, R.L. McGinnis, L.F. and White J.A., Facilities Layout and Location: An Analytical Approach, Prentice Hall, Englewood Cliff, NJ, 1992
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44	MDP	424	Operations Management	William J. Stevenson, ” Production/Operation Management” McGraw-Hill, seven edition, 2002
				Jams L. Riggs, ” Production Systems: Planning, Analysis and Control” John Will
				James R. Evans, etl, “Applied Production and Operation Management”, West Publishing
45	MDP	427	Computer Applications in industry - Elective (2) : 492	Thomas O. Boucher, Computer Automation In Manufacturing An Introduction, Chapman & Hall, 1996
				Galip Ulsoy and Warren R., Microcomputer Applications In manufacturing, JohnWiley & Sons, 1989
				Andrew Kusiak, Intelligent Manufacturing Systems, Pre
46	MDP	428	Ergonomics - Elective (2) : 492	Human factors in Engineering and Design Ernest J. Mc Cormick and Mark S. Sander Mc Graw Hill
				Introduction to Human Factors Engineering 2nd. Edition - Christopher Wickens, John Lee, Yli Liu

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47	MDP	431	Materials & Process Selection - Elective (2): 492	M.F. Ashby, Materials Selection in Mechanical Design, Butterworth-Heinemann, 1992
				Farag, M., Selection of Materials and Manufacturing Processes for Engineering Design, Prentice Hall, N.T, 1989
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				Farag, M., Selection of Materials and Manufacturing Processes for Engineering Design, Prentice Hall, N.T, 1989
48	MDP	441	Measurement	Gupta, R. C., Engineering Precision Metrology, Khanna Publishers, 1979
				Jain, Engineering Metrology, Khanna Publisher, 1999
49	MDP	443	Systems Modeling - Elective (3) :493	Averill, L. and Kelton, D.M.; Simulation Modelling and Analysis; McGraw Hill Co.; 1999
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50	MDP	451	Tool Design	-----
51	MDP	455	Operations Research - Elective (3) : 493	Hamdy A. Taha, Operations Research, Prentice Hall, Seventh Edition, 2006
				William J. Stevenson, Production Operation Management, Mc Graw-Hill companies, Inc., Six Editions, 1999
52	MDP	471	Numerical Control Machines	COMPUTER NUMERICAL CONTROL, Joseph Puztai & Michael Sava, A Prentice-Hall Company, 1983
				COMPUTER NUMERICAL CONTROL OF MACHINE TOOLS, G. E. Thyer, Second edition, NEWNES, 1991
				COMPUTER NUMERICAL CONTROL, Hans B. Kief, T. Frederick
53	MDP	499	Project	-----

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54	CEP	452	Environmental Engineering - Elective (3) : 493	
55	CSE	461	Information Systems - Elective (3) : 493	
56	HUM	X32	Project Management	The Project Management Institute (2013), A Guide to the Project Management Body of Knowledge (PMBOK® Guide), Fifth Edition
				Effective project management, Wysocki, R. K., 2014, Wiley
				Kerzner, H., "Project Management: A Systems Approach to Planning, Scheduling, and Controlling", 2009, 10th edition, John Wiley & Sons
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57	HUM	X41	Legislation & Contracts	Operations management, W.J. Stevenson, 11 th ed, 2012, McGraw-Hill
				Gharaf, A., Principles of Business law, Cairo, 1995
				Hochuli, U., Role of the Engineer under FIDIC standard contracts, International Business Lawyer, December 1991
				أحمد شرف الدين، أصول الصياغة القانونية للعقود، القاهرة، 1992
58	HUM	X42	Environmental Impact of Projects	أحمد شرف الدين، تسوية منازعات عقود الإنشاء الدولية (نماذج عقود الفيديك) 1997
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