

Code	Course Name	References
PRE 5113	Engineering Materials 1	<ol style="list-style-type: none"> 1. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm 2. http://download-pdf-ebooks.in/86-32-library-books 3. http://nptel.ac.in/ 4. http://www.xpowerpoint.com/ppt/mechanical-strength-of-materials.html 5. http://ocw.mit.edu/courses/materials-science-and-engineering/3-40j-physical-metallurgy-fall-2009/lecture-notes/
PRE 5115	Computer Application in Production Engineering (1)	<ol style="list-style-type: none"> 1. Hahn, Brian, and Daniel Valentine. Essential MATLAB for engineers and scientists. Newnes, 2007. 2. http://www.mathworks.com/help/matlab/
PRE 5117	Engineering Economy	<ol style="list-style-type: none"> 1. https://www.youtube.com/playlist?list=PLbMVogVj5nJRTAVF4-tueujAFiLKIV3Mo 2. http://engineering.utep.edu/enge/EE/fvb.htm
PRE 5122	Strength of Materials	<ol style="list-style-type: none"> 1. http://www.ijee.ie/OnlinePapers/Interactive/Philpot/mohr_learning_tool.htm 2. https://www.youtube.com/watch?v=iNG4bLMYeFA 3. https://www.youtube.com/watch?v=ZSQ_51Rj5gI 4. https://www.youtube.com/watch?v=U7CPRj1T5n8
PRE 5123	Machining Techniques & Equipment (1)	<ol style="list-style-type: none"> 1. Gerling, Heinrich. All about Machine Tools: Revised to Indian Standards. New Age International (P) Limited, Publishers, 2004. 2. Stephenson, David A., and John S. Agapiou. Metal cutting theory and practice. Vol. 68. CRC press, 2005.
PRE 5125	Shaping Techniques and Equipment (1)	<ol style="list-style-type: none"> 1. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm 2. https://www.youtube.com/user/videoaws 3. http://www.msm.cam.ac.uk/phase-trans/2002/welding.1.html 4. http://download-pdf-ebooks.in/86-1-library-books 5. http://nptel.ac.in/
PRE 5127	Technical Reports in Production Engineering	<ol style="list-style-type: none"> 1. https://www.youtube.com/playlist?list=PLbMVogVj5nJSZB8BV29_sPwwkzMTYXpaH
PRE 5211	Machine Design 1	<ol style="list-style-type: none"> 1. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm 2. https://docs.google.com/file/d/0BwMSCZJ_SEEhb2xNbWt6X3p2YTQ/edit 3. http://nptel.ac.in/
PRE 5212	Theory of Machine (1)	<ol style="list-style-type: none"> 1. https://www.youtube.com/channel/UCVRIvbGEIEU8a9Q5Q_VwLA 2. https://www.youtube.com/playlist?list=PLBEA57F7E7560C8E8 3. file:///D:/Theory%202/Theory/Animations/Animation.html
PRE 5213	Stress Analysis Systems	<ol style="list-style-type: none"> 1. http://nptel.ac.in/ 2. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm
PRE 5215	Computer Application in Production Engineering (2)	<ol style="list-style-type: none"> 1. Tizzard, Andrew. An introduction to computer-aided engineering. McGraw-Hill, 1994. 2. Kreith, Frank. Mechanical engineering handbook. 1999.

PRE 5216	Engineering Management (1)	<ol style="list-style-type: none"> 1. https://www.youtube.com/channel/UCb9-9vwqkOSgpSOX69PQacA/playlists 2. http://ocw.mit.edu/courses/sloan-school-of-management/
PRE 5223	Shaping Techniques and Equipment (2)	<ol style="list-style-type: none"> 1. Tschaetsch, Heinz. Metal forming practise. Springer-Verlag Berlin Heidelberg, 2006.
PRE 5224	Machine Design (2)	<ol style="list-style-type: none"> 1. http://nptel.ac.in/ 2. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm 3. https://docs.google.com/file/d/0BwMSCZJ_SEEHb2xNbWt6X3p2YTQ/edit
PRE 5225	Measurements	<ol style="list-style-type: none"> 1. http://www.staff.vu.edu.au/VRouillard/Signal%20Analysis%20WEB/Engineering%20Measurement%20-%20Fundamentals.pdf 2. http://www-gateway.vpr.drexel.edu/files/labmanual.pdf 3. http://www.npl.co.uk/upload/pdf/beg-guide-measurement-mech-eng.pdf 4. http://www.mamce.org/ctl/downloads/ece/nithya2.pdf 5. http://www.ce.siu.edu/LabGeneral/Measurement_Error.pdf 6. http://telc.tanta.edu.eg/hosting/pro5/containt/L1.htm 7. http://www.sosmath.com/algebra/unitconv/unit2/unit2.html 8. http://www.generaltools.com/Measuring-Tools_c_10.html 9. http://hctmetrology.tripod.com 10. http://mrahmedabdo.blogspot.com/2009/11/blog-post_18.html 11. https://www.youtube.com/watch?v=99oSGIkZ3sc
PRE 5226	Engineering Materials (2)	<ol style="list-style-type: none"> 1. http://nptel.ac.in/ 2. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm 3. http://ocw.mit.edu/courses/materials-science-and-engineering/3-40j-physical-metallurgy-fall-2009/lecture-notes/
PRE 5311	Theory of Machine (2)	<ol style="list-style-type: none"> 1. https://www.youtube.com/playlist?list=PLAC668A0566953FB5
PRE 5313	Metrology	<ol style="list-style-type: none"> 1. http://nptel.ac.in/courses/112106138/ 2. http://textofvideo.nptel.iitm.ac.in/video.php?courseId=112106138 3. http://mdmetric.com/Ch6.8wGO.pdf 4. http://www.amesweb.info/FitTolerance/FitTolerance.aspx#.VHsxHz8LIU 5. http://web.aeromech.usyd.edu.au/ENGG1960/Documents/Week12/Engineering%20Drawings%20Lecture%20Linear%20Fits%20and%20Tolerances%20Rev%201.pdf 6. https://www.youtube.com/watch?v=99oSGIkZ3sc 7. https://www.youtube.com/watch?v=Gdvtw0pTAOs 8. https://www.youtube.com/watch?v=Slng4oK0ik4
PRE 5314	Theory of Metal Cutting	<ol style="list-style-type: none"> 9. http://nptel.ac.in/courses/112105126/ 10. http://nptel.ac.in/downloads/112105127/
PRE 5315	Theory of Metal Forming	<ol style="list-style-type: none"> 1. http://download-pdf-ebooks.in/86-1-library-books 2. http://www.learnerstv.com/Free-Engineering-video-lecture-courses.htm 3. http://nptel.ac.in/
PRE 5316	Elective Course (1) Robot Arm Engineering	<ol style="list-style-type: none"> 1. M. W. Spong, S. Hutchinson and M. Vidyasagar. Robot Modeling and Control. John Wiley & Sons, Inc., 2006 - Text book 2. Craig, John J. Introduction to robotics: mechanics and control. Upper Saddle River, NJ, USA. Pearson/Prentice Hall, 2005. 3. https://www.youtube.com/watch?v=DaWMvEY3Qgc

PRE 5316	Elective Course (1) Industrial and Professional Safety	<ol style="list-style-type: none"> 1. http://www.oshatrain.org/courses/mods/601e.html 2. http://www.oshatrain.org/courses/mods/700e.html 3. http://www.oshatrain.org/courses/mods/704e.html
PRE 5321	Numerical Control of Machine Tool	<ol style="list-style-type: none"> 1. Suh, Suk-Hwan, et al. Theory and design of CNC systems. Springer, 2008. 2. Fitzpatrick, Michael. Machining and CNC technology. McGraw-Hill, 2011. 3. Chang, Kuang-Hua. Product Manufacturing and Cost Estimating using CAD/CAE: The Computer Aided Engineering Design Series. Academic Press, 2013.
PRE 5323	Factory Planning and Production Processes	<ol style="list-style-type: none"> 1. http://turnkey.taiwantrade.com.tw/en/
PRE 5324	Applied Statistics in Production Processes	<ol style="list-style-type: none"> 1. http://stattrek.com/tutorials/statistics-tutorial.aspx 2. https://www.usablestats.com/tutorials.php 3. http://www.gla.ac.uk/sums/users/jdbmcdonald/PrePost_TTTest/instruct1.html 4. https://www.khanacademy.org/math/probability 5. http://www.mathsisfun.com/data/ 6. https://www.youtube.com/playlist?list=PLC58778F28211FA19
PRE 5325	Machining Techniques and Equipment (3)	<ol style="list-style-type: none"> 1. Davim, J. Paulo. Machining: fundamentals and recent advances. Springer, 2008. 2. Youssef, Helmi A., and Hassan El-Hofy. Machining technology: machine tools and operations. CRC Press, 2008. 3. http://osp.mans.edu.eg/s-hazem/NTM/NonTraditionalMachining.html
PRE 5326	Engineering Management (2)	<ol style="list-style-type: none"> 1. http://www.projectsmart.co.uk/
PRE 5411	Production System Analysis	<ol style="list-style-type: none"> 1. http://www.zweigmedia.com/RealWorld/Summary4.html 2. http://wps.prenhall.com/bp_taylor_introms_11/220/56508/14466195.cw/content/
PRE 5412	Production Tools and Equipment Design	<ol style="list-style-type: none"> 1. http://osp.mans.edu.eg/s-hazem/CTD/Cutting%20Tool%20Design.html
PRE 5413	Automatic Control	<ol style="list-style-type: none"> 1. Golnaraghi, Farid, and Benjamin C. Kuo. Automatic control systems. Wiley Publishing, 2009.
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Elective Course (4)
Operations Research

1. <http://people.brunel.ac.uk/~mastjjb/jeb/or/contents.html>
2. <http://www.me.utexas.edu/~jensen/ORMM/models/index.html>
3. <https://www.youtube.com/playlist?list=PLE1A690CCA8279F89>