



P.E.S. COLLEGE OF ENGINEERING, MANDYA

(An Autonomous Institution affiliated to V.T.U. Belagavi, Aided by Govt. of Karnataka)
(Approved by AICTE, Accredited by NBA (UG Programmes) and NAAC, New Delhi)

E-resources

SI NO	Course	Link
1	Building Materials and Construction	<p>Web and Video link(s):</p> <ol style="list-style-type: none"> 1. Footings: https://www.youtube.com/watch?v=s6E2t_kW57M 2. Cost effective construction: https://www.youtube.com/watch?v=PmX0npteV3c 3. Arches: https://www.youtube.com/watch?v=2RZKK4LhUas 4. Flooring Association of India <p>E-Books/Resources:</p> <p>https://www.sciencedirect.com/journal/construction-and-building-materials</p>
2	Concrete Technology	<p>Web links and Video Lectures (e-Resources):</p> <p>Cement: https://nptel.ac.in/courses/105102012/1 Aggregates: https://nptel.ac.in/courses/105102012/6 Mineral admixtures: https://nptel.ac.in/courses/105102012/11 Chemical admixtures: https://nptel.ac.in/courses/105102012/9 https://nptel.ac.in/courses/105102012/10 Concrete mix design: https://nptel.ac.in/courses/105102012/14 Concrete production & fresh concrete: https://nptel.ac.in/courses/105102012/19 Engineering properties of concrete: https://nptel.ac.in/courses/105102012/23 Dimensional stability & durability: https://nptel.ac.in/courses/105102012/27 Durability of concrete: https://nptel.ac.in/courses/105102012/31 Special concretes: https://nptel.ac.in/courses/105102012/36</p> <p>E-Books/Resources</p> <p>https://archive.nptel.ac.in/courses/105/106/105106176/ https://archive.nptel.ac.in/courses/105/102/105102012/</p>
3	Fluid Mechanics and Hydraulics	<p>Web and Video link(s):</p> <ol style="list-style-type: none"> 1. Properties of Fluid: https://youtu.be/-d67xfgJV98 2. Hydrostatics: https://youtu.be/IJSUeEqGNY0 3. Application of Bernoulli's equation: https://youtu.be/dlsMHsM2V88 4. Losses in pipe fittings: https://youtu.be/pZh5_AWvBuU 5. Dimensional Analysis: https://youtu.be/zr15T9DU1wU <p>E-Books/Resources:</p> <ul style="list-style-type: none"> • https://searchworks.stanford.edu/view/10496310 • https://searchworks.stanford.edu/view/13576277 • https://searchworks.stanford.edu/view/11842972
4	Strength of Materials	<p>Web and Video link(s):</p> <ol style="list-style-type: none"> 1. Strength of Materials by Prof. S.K. Bhattacharyya, IIT Kharagpur https://nptel.ac.in/courses/105105108/ 2. Advanced Strength of Materials by Prof. S.K. Maiti, IIT Bombay https://archive.nptel.ac.in/course.html 3. Strength of Materials video course by IIT Roorkee



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		<p>https://nptel.ac.in/courses/112107147/ E-Books/Resources: 1. Strength of Materials by Prof. S.K. Bhattacharyya, IIT Kharagpur https://nptel.ac.in/courses/105105108/ 2. Strength of Materials by Prof. M.S. Sivakumar, IIT Madras https://archive.nptel.ac.in/courses/112/106/112106141/ 3. Strength of Materials by Dr. Satish C Sharma, IIT Roorkee https://nptel.ac.in/courses/112107146/</p>
5	Analysis Of Structures	<p>Web and Video link(s): 1. Structural Analysis I, Prof. Amit Shaw, IIT Kharagpur https://nptel.ac.in/courses/105105166 https://nptel.ac.in/courses/105105109 2. Matrix method of Structural analysis, Prof. Biswanath Banerjee, Prof. Amit Shaw, IIT Kharagpur https://archive.nptel.ac.in/courses/105/105/105105180/ E-Books/Resources: 1. Structural Analysis I, Prof. Amit Shaw, IIT Kharagpur https://archive.nptel.ac.in/courses/105/105/105105166/ 2. 2.Structural Analysis II, Prof. L S Ramachandra, Prof. Sudhir Kumar Bri, IIT Kharagpur https://nptel.ac.in/courses/105105109 3. 3.Matrix method of Structural analysis, Prof. Biswanath Banerjee, Prof. Amit Shaw, IIT Kharagpur (https://archive.nptel.ac.in/courses/105/105/105105180/) 4. 4.Structural analysis I, Dr. Siddhartha Ghosh, Dr. R.S. Jangid, IIT Bombay (https://archive.nptel.ac.in/courses/105/101/105101085/)</p>
6	Hydrology and Irrigation Engineering	<p>Web and Video link(s): 1. Hydrologic cycle and concept of catchment: https://youtu.be/iWb-V7dV7XM 2. Evaporation: https://youtu.be/4RZF1L70mRY 3. Estimation of Infiltration: https://youtu.be/caklKXXrHW4 4. Numerical examples on UH & DRH: https://youtu.be/FHY1BRmCFXU 5. Crop water requirement: https://youtu.be/e7pckUDQ9oI E-Books/Resources: 1. https://searchworks.stanford.edu/view/6332733 2. https://searchworks.stanford.edu/view/550141 3. https://searchworks.stanford.edu/view/13795811</p>
7	Geodetic Engineering	<p>Web and Video link(s): https://www.youtube.com/channel/UCD9xFiECDPnQiVdjj-UvsRg/playlists E-Books/Resources: • https://searchworks.stanford.edu/view/2652850</p>
8	Public Health	Web and Video link(s):



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	Engineering	<ul style="list-style-type: none">• https://youtu.be/yDnrv-oGSBc• https://youtu.be/K4Vty0cmybI• https://youtu.be/bCKm9KkcQtw• https://youtu.be/mVmErXpIp64• https://youtu.be/qXUwy5OnX9Q• https://youtu.be/QyLdA_qhUog• https://youtu.be/rKTWjvx7E8A• https://youtu.be/PEX_0DebrSQ
9	Geo-Technical Engineering	<p>Web and Video link(s):</p> <ol style="list-style-type: none">1. Formation of soil: https://youtu.be/1-6gsfl66HY?list=RDCMUCCDzHkpuIuD1ZC0wsCXUuPQ2. Clay mineralogy: https://www.youtube.com/watch?v=VnaPywvwDnk3. Soil as a 3-Phase system: https://www.youtube.com/watch?v=gfvU7I_bnoI4. Index Properties of soil and Soil Classification: https://www.youtube.com/watch?v=vvLuXO17s9k5. Flow of water through soil Part-1: https://www.youtube.com/watch?v=n2V35Bxr3H4&list=PL940DD62E8781E147&index=206. Flow of water through soil Part-2: https://www.youtube.com/watch?v=MztBQb683_I&list=PL940DD62E8781E147&index=217. Flow of water through soil Part-3: https://www.youtube.com/watch?v=JFtVYgxrRuo&list=PL940DD62E8781E147&index=228. Compaction of soils: https://www.youtube.com/watch?v=CKgDOF9S3hM&list=PL940DD62E8781E147&index=149. Compaction of soils: https://www.youtube.com/watch?v=-NVfr3z5uA&list=PL940DD62E8781E147&index=1510. Consolidation of soils: https://www.youtube.com/watch?v=LCCJL3m4_6A11. Coefficient of consolidation: https://www.youtube.com/watch?v=e4VSGslfDHc12. Compressibility Characteristics of soil:



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		<p>https://www.youtube.com/watch?v=hMlrCg7pQQU 13.Foundation settlement: https://www.youtube.com/watch?v=S3ZKKQHLgnQ 14.Shear strength of soil: https://www.youtube.com/watch?v=Aa4oGovhVA8 15.Lab: Specific Gravity and Field density: https://www.youtube.com/watch?v=RUYkn1kDvoI&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=2 16.Lab: Grain size analysis: https://www.youtube.com/watch?v=VoY5Ms8DpW0&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=4 17.Lab: Consistency Limits: https://www.youtube.com/watch?v=Aotqk7MhN1M&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=7 18.Lab: Compaction of soils: https://www.youtube.com/watch?v=2IC_fKawf4Q&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=10 19.Lab: Permeability of soils: https://www.youtube.com/watch?v=P3IJVyV_IGk&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=12 20.Lab: Shear strength of soil Part-1: https://www.youtube.com/watch?v=OftfsrO7nVk&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=14 21.Lab: Shear strength of soil Part-2: https://www.youtube.com/watch?v=TG9G1a2cV5g&list=PL3MO67NH2XxKxWtYte3GeJJN8LNQWcJqP&index=15 E-Books/Resources: 1.https://www.sciencedirect.com/topics/engineering/geotechnical-engineering 2.https://www.sciencedirect.com/topics/engineering/geotechnical-engineer 3.https://www.icevirtuallibrary.com/toc/jgeen/current</p>
10	<p align="center">Ground Improvement Techniques</p>	<p>Web and Video link(s):</p> <ol style="list-style-type: none"> Civil-Ground Improvement Techniques: https://youtube.com/playlist?list=PLbMVogVj5nJRb_yA6oMKfoT89hyUcuHIA Need for Ground Improvements: https://www.youtube.com/watch?v=6yhW3CbArQc&list=P



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		<p>LbMVogVj5nJRb_yA6oMKfoT89hyUcuHIA&index=2</p> <p>E-Books/Resources:</p> <ol style="list-style-type: none">1. http://www.sciencedirect.com/science/book/97801240807682. https://www.icevirtuallibrary.com/toc/jgrim/current <p>https://www.sciencedirect.com/science/article/pii/S2405844021017813</p>
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