



RayatShikshanSanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara



**Criterion 2 – Teaching, Learning and Evaluation**  
**Key Indicator - 2.3 Teaching – Learning Processes.**

**2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc, E –resource and techniques used**

| Sr.No. | Documentary Evidences / Sample Documents              | Page No. |
|--------|---|----------|
| 1      | Sample documents for E-resources and techniques used. | 1 -10    |

**Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara.**

**Name of the Program:- Civil Engineering**

**Name of the Course: Water Resources Engg.-I**

| Sr. No | Link  | Content   |
|--------|---|---|
| 1      | <a href="http://nptel.ac.in/downloads/105105110/">http://nptel.ac.in/downloads/105105110/</a>   | WRE-I Notes   |
| 2      | <a href="http://nptel.ac.in/courses/105104029/1">http://nptel.ac.in/courses/105104029/1</a>   | NPTEL Hydrology Notes                                     |
| 3      | <a href="http://nptel.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Water%20Resource%20Engg/New_index1.html">http://nptel.ac.in/courses/Webcourse-contents/IIT%20Kharagpur/Water%20Resource%20Engg/New_index1.html</a> | IIT WRE-I Notes   |
| 4      | <a href="http://nptel.ac.in/courses/105107129/">http://nptel.ac.in/courses/105107129/</a>   | NPTEL Hydrology Notes                                     |
| 5      | <a href="http://nptel.ac.in/courses/105101002/9">http://nptel.ac.in/courses/105101002/9</a>   | NPTEL Hydrology Notes                                     |
|        | <b>Video:-</b>  |   |
| 1      | <a href="https://www.youtube.com/watch?v=fx1uUek3lqg">https://www.youtube.com/watch?v=fx1uUek3lqg</a>   | Hydrological Cycle  |
| 2      | <a href="https://www.youtube.com/watch?v=2hHDRv80j5o">https://www.youtube.com/watch?v=2hHDRv80j5o</a>   | Hydrograph  |
| 3      | <a href="https://www.youtube.com/watch?v=PKbhqgF1gZY">https://www.youtube.com/watch?v=PKbhqgF1gZY</a>   | Hydrology GATE Exam questions                             |
| 4      | <a href="https://www.youtube.com/watch?v=XELQs76A84">https://www.youtube.com/watch?v=XELQs76A84</a>   | Hydrologic Cycle, Evaporation, Percolation, Transpiration |
| 5      | <a href="https://www.youtube.com/watch?v=AqTbyFITIOY">https://www.youtube.com/watch?v=AqTbyFITIOY</a>   | Precipitation means Rain, Drizzle, Snow, Glaze, Sleet     |
| 6      | <a href="https://www.youtube.com/watch?v=utdyYvIznJE">https://www.youtube.com/watch?v=utdyYvIznJE</a>   | Groundwater recharge methods                              |
| 7      | <a href="https://www.youtube.com/watch?v=rMfeQJMSRzY">https://www.youtube.com/watch?v=rMfeQJMSRzY</a>   | Rainwater Harvesting                                      |
| 8      | <a href="https://www.youtube.com/watch?v=WTDemILT7is">https://www.youtube.com/watch?v=WTDemILT7is</a>   | Roof Water Harvesting                                     |
| 9      | <a href="https://www.youtube.com/watch?v=Sx3Zd1p-XrA">https://www.youtube.com/watch?v=Sx3Zd1p-XrA</a>   | Construct a Rain Water Harvesting Pit                     |
| 10     | <a href="https://www.youtube.com/watch?v=encyNoxD32c">https://www.youtube.com/watch?v=encyNoxD32c</a>   | Groundwater - Hydrogeology                                |
| 11     | <a href="https://www.youtube.com/watch?v=udKOVtJoe-s">https://www.youtube.com/watch?v=udKOVtJoe-s</a>   | Unconfined Ground water Flows                             |
| 12     | <a href="https://www.youtube.com/watch?v=9z7UXJ2KNGE">https://www.youtube.com/watch?v=9z7UXJ2KNGE</a>   | Well Hydraulics Lecture for GATE                          |
| 13     | <a href="https://www.youtube.com/watch?v=AOWjixXkUcc">https://www.youtube.com/watch?v=AOWjixXkUcc</a>   | <b>Steady Flow into Wells</b> Unsteady Flow into Wells    |
| 14     | <a href="https://www.youtube.com/watch?v=QLOMusnzUWE">https://www.youtube.com/watch?v=QLOMusnzUWE</a>   | CONCEPT OF HYDROLOGY " GATE & IES EXAM " Short Notes      |
| 15     | <a href="https://www.youtube.com/watch?v=AR0fLbD8zUE&amp;list=PL0HVDHltzCwLHZ9B8_SwIH68KNUIfvC2">https://www.youtube.com/watch?v=AR0fLbD8zUE&amp;list=PL0HVDHltzCwLHZ9B8_SwIH68KNUIfvC2</a>                               | Irrigation Engineering                                    |
| 16     | <a href="https://www.youtube.com/watch?v=FbLwdzq0Xcw&amp;list=PLgKS6w0MoPPuEyfpfpqAI8Wa3ETkwIJzi">https://www.youtube.com/watch?v=FbLwdzq0Xcw&amp;list=PLgKS6w0MoPPuEyfpfpqAI8Wa3ETkwIJzi</a>                             | Soil Water and Plant Relationship                         |
| 17     | <a href="https://www.youtube.com/watch?v=eaxZ8VEPlz0&amp;list=PLgKS6w0MoPPuEyfpfpqAI8Wa3ETkwIJzi&amp;index=1">https://www.youtube.com/watch?v=eaxZ8VEPlz0&amp;list=PLgKS6w0MoPPuEyfpfpqAI8Wa3ETkwIJzi&amp;index=1</a>     | Duty, Delta, Efficiency, Requirement                      |
| 18     | <a href="https://www.youtube.com/watch?v=nnuaxfeMvew">https://www.youtube.com/watch?v=nnuaxfeMvew</a>   | Unit Hydrograph Examples                                  |
| 19     | <a href="https://www.youtube.com/watch?v=BFjK9BDqM8Y">https://www.youtube.com/watch?v=BFjK9BDqM8Y</a>   | Hydrograph GATE previous years' problems                  |
| 20     | <a href="https://www.youtube.com/watch?v=36Uab3MtLAY">https://www.youtube.com/watch?v=36Uab3MtLAY</a>   | Numerical of " UNIT HYDROGRAPH"                           |
| 21     | <a href="https://www.youtube.com/watch?v=f1cM5rx6N2w">https://www.youtube.com/watch?v=f1cM5rx6N2w</a>   | Unit Hydrograph   |
| 22     | <a href="https://www.youtube.com/watch?v=2yx5-x5trM0">https://www.youtube.com/watch?v=2yx5-x5trM0</a>   | Hydrograph  |
| 23     | <a href="https://www.youtube.com/watch?v=2-PFzI9qj1Y">https://www.youtube.com/watch?v=2-PFzI9qj1Y</a>   | DRH   |
| 24     | <a href="https://www.youtube.com/watch?v=f1cM5rx6N2w">https://www.youtube.com/watch?v=f1cM5rx6N2w</a>   | Unit Hydrograph   |
| 25     | <a href="https://www.youtube.com/watch?v=HXQt8T1I55I">https://www.youtube.com/watch?v=HXQt8T1I55I</a>   | Unconfined and Confined Aquifers                          |
| 26     | <a href="https://www.voutube.com/watch?v=2ToC3sIPx9o">https://www.voutube.com/watch?v=2ToC3sIPx9o</a>   | Surface Water   |



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| 1      | <a href="http://nptel.ac.in/downloads/105105110/">http://nptel.ac.in/downloads/105105110/</a>   | WRE-I Notes   |
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| 6      | <a href="https://www.youtube.com/watch?v=utdyYvIznJE">https://www.youtube.com/watch?v=utdyYvIznJE</a>   | Groundwater recharge methods                              |
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| 8      | <a href="https://www.youtube.com/watch?v=WTDemILT7is">https://www.youtube.com/watch?v=WTDemILT7is</a>   | Roof Water Harvesting                                     |
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| 10     | <a href="https://www.youtube.com/watch?v=encyNoxD32c">https://www.youtube.com/watch?v=encyNoxD32c</a>   | Groundwater - Hydrogeology                                |
| 11     | <a href="https://www.youtube.com/watch?v=udKOVtJoe-s">https://www.youtube.com/watch?v=udKOVtJoe-s</a>   | Unconfined Ground water Flows                             |
| 12     | <a href="https://www.youtube.com/watch?v=9z7UXJ2KNGE">https://www.youtube.com/watch?v=9z7UXJ2KNGE</a>   | Well Hydraulics Lecture for GATE                          |
| 13     | <a href="https://www.youtube.com/watch?v=AOWjiXXkUcc">https://www.youtube.com/watch?v=AOWjiXXkUcc</a>   | <b>Steady Flow into Wells</b> Unsteady Flow into Wells    |
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| 15     | <a href="https://www.youtube.com/watch?v=AROfLbD8zUE&amp;list=PLOHVDHLtzCwLHZZ9B8_SwIH68KNUIfvC2">https://www.youtube.com/watch?v=AROfLbD8zUE&amp;list=PLOHVDHLtzCwLHZZ9B8_SwIH68KNUIfvC2</a>                             | Irrigation Engineering                                    |
| 16     | <a href="https://www.youtube.com/watch?v=FbLwdzq0Xcw&amp;list=PLgKS6w0MoPPuEyfpfqAI8Wa3ETkwIJzi">https://www.youtube.com/watch?v=FbLwdzq0Xcw&amp;list=PLgKS6w0MoPPuEyfpfqAI8Wa3ETkwIJzi</a>                               | Soil Water and Plant Relationship                         |
| 17     | <a href="https://www.youtube.com/watch?v=eaxZ8VEPlz0&amp;list=PLgKS6w0MoPPuEyfpfqAI8Wa3ETkwIJzi&amp;index=1">https://www.youtube.com/watch?v=eaxZ8VEPlz0&amp;list=PLgKS6w0MoPPuEyfpfqAI8Wa3ETkwIJzi&amp;index=1</a>       | Duty, Delta, Efficiency, Requirement                      |
| 18     | <a href="https://www.youtube.com/watch?v=nnuaxfeMvew">https://www.youtube.com/watch?v=nnuaxfeMvew</a>   | Unit Hydrograph Examples                                  |
| 19     | <a href="https://www.youtube.com/watch?v=BFjK9BDqM8Y">https://www.youtube.com/watch?v=BFjK9BDqM8Y</a>   | Hydrograph GATE previous years' problems                  |
| 20     | <a href="https://www.youtube.com/watch?v=36Uab3MtLAY">https://www.youtube.com/watch?v=36Uab3MtLAY</a>   | Numerical of " UNIT HYDROGRAPH"                           |
| 21     | <a href="https://www.youtube.com/watch?v=f1cM5rx6N2w">https://www.youtube.com/watch?v=f1cM5rx6N2w</a>   | Unit Hydrograph   |
| 22     | <a href="https://www.youtube.com/watch?v=2yx5-x5trM0">https://www.youtube.com/watch?v=2yx5-x5trM0</a>   | Hydrograph  |
| 23     | <a href="https://www.youtube.com/watch?v=2-PFzI9qj1Y">https://www.youtube.com/watch?v=2-PFzI9qj1Y</a>   | DRH   |
| 24     | <a href="https://www.youtube.com/watch?v=f1cM5rx6N2w">https://www.youtube.com/watch?v=f1cM5rx6N2w</a>   | Unit Hydrograph   |
| 25     | <a href="https://www.youtube.com/watch?v=HXQt8T1I55I">https://www.youtube.com/watch?v=HXQt8T1I55I</a>   | Unconfined and Confined Aquifers                          |
| 26     | <a href="https://www.youtube.com/watch?v=2ToC3sIPx9o">https://www.youtube.com/watch?v=2ToC3sIPx9o</a>   | Surface Water   |



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Karmaveer Bhaurao Patil College of Engineering, Satara**

**Name of the Program:- Civil Engineering**

**Name of the Course: REMOTE SENSING AND G.I.S IN CIVIL  
ENGINEERING**

| Sr. No | Link  | Content   |
|--------|---|---|
| 1      | <a href="https://www.youtube.com/watch?v=-KX9jflzRsg">https://www.youtube.com/watch?v=-KX9jflzRsg</a> | Application of remote sensing in LULC & Runoff                                  |
| 2      | <a href="https://www.youtube.com/watch?v=cn5CWu_zt_s">https://www.youtube.com/watch?v=cn5CWu_zt_s</a> | Remote Sensing Introduction   |
| 3      | <a href="https://www.youtube.com/watch?v=ehbMZPrmR3w">https://www.youtube.com/watch?v=ehbMZPrmR3w</a> | Electromagnetic Spectrum  |
| 4      | <a href="https://www.youtube.com/watch?v=7RKLH4Fsh5o">https://www.youtube.com/watch?v=7RKLH4Fsh5o</a> | Sensors and Platform  |
| 5      | <a href="https://www.youtube.com/watch?v=tMHB748PpA">https://www.youtube.com/watch?v=tMHB748PpA</a>   | Image Interpretation  |
| 6      | <a href="https://www.youtube.com/watch?v=Xq4vCij8Bc8">https://www.youtube.com/watch?v=Xq4vCij8Bc8</a> | Remote Sensing & Applications in Watershed Management                           |
| 7      | <a href="https://www.youtube.com/watch?v=zqdVSV28g34">https://www.youtube.com/watch?v=zqdVSV28g34</a> | RS and GIS Applications to Water Resources                                      |
| 8      | <a href="https://www.youtube.com/watch?v=rp16BiM5qfw">https://www.youtube.com/watch?v=rp16BiM5qfw</a> | ESTIMATION OF LAND USE AND LAND COVER CHANGE USING REMOTE SENSING AND GIS       |
| 9      | <a href="https://www.youtube.com/watch?v=YU9XphJqi6k">https://www.youtube.com/watch?v=YU9XphJqi6k</a> | satellite based remote sensing  |
| 10     | <a href="https://www.youtube.com/watch?v=nYJo1d-SWas">https://www.youtube.com/watch?v=nYJo1d-SWas</a> | Basic Concepts of Remote Sensing GIS GPS  |
| 11     | <a href="https://www.youtube.com/watch?v=NZpAb6_Yzbg">https://www.youtube.com/watch?v=NZpAb6_Yzbg</a> | Introduction to Digital Image Processing  |
| 12     | <a href="https://www.youtube.com/watch?v=yIvjByLvpfE">https://www.youtube.com/watch?v=yIvjByLvpfE</a> | Basic of remote sensing   |
| 13     | <a href="https://www.youtube.com/watch?v=iqqDZv6Mguk">https://www.youtube.com/watch?v=iqqDZv6Mguk</a> | Principles of Remote Sensing & EMR  |
| 14     | <a href="https://www.youtube.com/watch?v=FoQD89DHHml">https://www.youtube.com/watch?v=FoQD89DHHml</a> | Application of remote sensing in Geology  |
| 15     | <a href="https://www.youtube.com/watch?v=B2GbCQyr1vc">https://www.youtube.com/watch?v=B2GbCQyr1vc</a> | EMR radiation and its interactions with atmosphere and earth                    |
| 16     | <a href="https://www.youtube.com/watch?v=4NWgEfbNzho">https://www.youtube.com/watch?v=4NWgEfbNzho</a> | Atmospheric interactions  |
| 17     | <a href="https://www.youtube.com/watch?v=HPcAWNIVI-8">https://www.youtube.com/watch?v=HPcAWNIVI-8</a> | NASA - Tour of the Electromagnetic Spectrum                                     |
| 18     | <a href="https://www.youtube.com/watch?v=a5at6maTbQ4">https://www.youtube.com/watch?v=a5at6maTbQ4</a> | The electromagnetic spectrum: properties and uses                               |
| 19     | <a href="https://www.youtube.com/watch?v=d9MZOlj7q3A">https://www.youtube.com/watch?v=d9MZOlj7q3A</a> | Electromagnetic Spectrum Notes  |
| 20     | <a href="https://www.youtube.com/watch?v=B2GbCQyr1vc">https://www.youtube.com/watch?v=B2GbCQyr1vc</a> | EMR radiation and its interactions with atmosphere and earth                    |
| 21     | <a href="https://www.youtube.com/watch?v=yIvjByLvpfE">https://www.youtube.com/watch?v=yIvjByLvpfE</a> | History of remote sensing   |
| 22     | <a href="https://www.youtube.com/watch?v=9SbXm7cPZp8">https://www.youtube.com/watch?v=9SbXm7cPZp8</a> | Active & Passive remote sensing   |
| 23     | <a href="https://www.youtube.com/watch?v=GN9R7s8-Rh8">https://www.youtube.com/watch?v=GN9R7s8-Rh8</a> | Remote Sensing GIS and GPS Application in Civil Engineering                     |
| 24     | <a href="https://www.youtube.com/watch?v=AwMR6jUYzBs">https://www.youtube.com/watch?v=AwMR6jUYzBs</a> | Remote Sensing GIS and GPS Applications in Civil Engineering                    |
| 25     | <a href="https://www.youtube.com/watch?v=hMF1CBu_EU">https://www.youtube.com/watch?v=hMF1CBu_EU</a>   | REMOTE SENSING  |
| 26     | <a href="https://www.youtube.com/watch?v=zesEJouvNU4">https://www.youtube.com/watch?v=zesEJouvNU4</a> | Remote Sensing - Band Combinations  |
| 27     | <a href="https://www.youtube.com/watch?v=sPnFkp-25fM">https://www.youtube.com/watch?v=sPnFkp-25fM</a> | Image Analysis using NDVI to Assess Vegetation Greenness (iGETT-Remote Sensing) |
| 28     | <a href="https://www.youtube.com/watch?v=b-ntziRCjR8">https://www.youtube.com/watch?v=b-ntziRCjR8</a> | Urban Land Use Land Cover Classification  |
| 29     | <a href="https://www.youtube.com/watch?v=6KuSGSNX9_Q">https://www.youtube.com/watch?v=6KuSGSNX9_Q</a> | Spatial and Radiometric Resolution  |
| 30     | <a href="https://www.youtube.com/watch?v=k12Hxl6mkkI">https://www.youtube.com/watch?v=k12Hxl6mkkI</a> | Landslide hazard assessment and forecasting                                     |
| 31     | <a href="https://www.youtube.com/watch?v=623QqmVkJic">https://www.youtube.com/watch?v=623QqmVkJic</a> | Environmental applications of remote sensing                                    |
| 32     | <a href="https://www.youtube.com/watch?v=zqdVSV28g34">https://www.youtube.com/watch?v=zqdVSV28g34</a> | RS and GIS Applications to Water Resources                                      |
| 33     | <a href="https://www.youtube.com/watch?v=GGLRyUCFv30">https://www.youtube.com/watch?v=GGLRyUCFv30</a> | RS and GIS Applications in Water Resources Management                           |
| 34     | <a href="https://www.youtube.com/watch?v=49jSZlyphI4">https://www.youtube.com/watch?v=49jSZlyphI4</a> | Remote Sensing and GIS Application in Soil Resource Assessment                  |
| 35     | <a href="https://www.youtube.com/watch?v=oGr3HqOUngs">https://www.youtube.com/watch?v=oGr3HqOUngs</a> | Forest Growing Stock Carbon Assessment Using RS GIS                             |

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| 36 | <a href="https://www.youtube.com/watch?v=CPz0vs_j05Y">https://www.youtube.com/watch?v=CPz0vs_j05Y</a> | Visual interpretation of aerial photographs      |
| 37 | <a href="https://www.youtube.com/watch?v=w0fx4InJsSo">https://www.youtube.com/watch?v=w0fx4InJsSo</a> | Aerial Photography                               |
| 38 | <a href="https://www.youtube.com/watch?v=q4hsK0x6wKQ">https://www.youtube.com/watch?v=q4hsK0x6wKQ</a> | Introducing the 8 Elements of Aerial Photography |
| 39 | <a href="https://www.youtube.com/watch?v=QUS3oYzTRRA">https://www.youtube.com/watch?v=QUS3oYzTRRA</a> | Image Interpretation Cues and Keys               |
| 40 | <a href="https://www.youtube.com/watch?v=Fy-F9TQAZbl">https://www.youtube.com/watch?v=Fy-F9TQAZbl</a> | Terrain Analysis                                 |
| 41 | <a href="https://www.youtube.com/watch?v=fmGBxIU3VAY">https://www.youtube.com/watch?v=fmGBxIU3VAY</a> | Fly High: Key Aerial Photo Terminology           |
| 42 | <a href="https://www.youtube.com/watch?v=CPz0vs_j05Y">https://www.youtube.com/watch?v=CPz0vs_j05Y</a> | Visual interpretation of aerial photographs      |
| 43 | <a href="https://www.youtube.com/watch?v=RwcxxTrreB8">https://www.youtube.com/watch?v=RwcxxTrreB8</a> | Classifications of digital images                |
| 44 | <a href="https://www.youtube.com/watch?v=9G-mCRaPoRc">https://www.youtube.com/watch?v=9G-mCRaPoRc</a> | Introduction to Image Resolution                 |
| 45 | <a href="https://www.youtube.com/watch?v=LvrafHaY4o8">https://www.youtube.com/watch?v=LvrafHaY4o8</a> | Types & Resolution of Remote Sensing Instruments |



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**Karmaveer Bhaurao Patil College of Engineering, Satara**

**Department of Civil Engineering**

**References**

**Subject: Theory of Structures (TE Civil)**

| Sr. No. | Name of Reference            | Reference   |
|---------|------------------------------|---|
| 01      | Books                        | 1. Vazirani V.N., and Ratwani M.M., "Analysis of Structures Vol. I and II", Khanna Publisher, New Delhi<br>2. Junnarkar S.B., and Shah H.J., "Mechanics of Structures Vol. I and II", Charotar Publisher House, Mumbai<br>3. Bhavikatti S.S., "Structural Analysis", Vikas Publishing House Pvt. Ltd., New Delhi<br>4. Pandit G.S., and Gupta S.P., "Structural Analysis- Matrix approach", Tata McGraw Hill, New Delhi<br>5. Gere J.M., and Weaver W., "Matrix analysis of structures", CBS Publishers and Distributors, New Delhi |
| 02      | Website:<br>PPT's<br>Video's | <a href="https://www.sites.google.com/views/sbpharande">https://www.sites.google.com/views/sbpharande</a><br><a href="https://nptel.ac.in/downloads/105101085/">https://nptel.ac.in/downloads/105101085/</a>  |

Rayat Shikshan Sanstha, Satara  
**Karmaveer Bhaurao Patil College of Engineering, Satara**

**Department of Civil Engineering**

**Video Links References**

**Subject: Theory of Structures**

**Class: T.E. Civil**

| Sr. No. | Name of Video's / Resources  | Web Link Reference   |
|---------|--|--|
| 01      | Theory of Structures Unit 1 Lecture 1: Slope and Deflection of Beams | <a href="https://www.youtube.com/watch?v=aRgLsT6GZrg">https://www.youtube.com/watch?v=aRgLsT6GZrg</a><br>or<br><a href="https://www.sites.google.com/views/sbpharande">https://www.sites.google.com/views/sbpharande</a> |
| 02      | Matrix Method   Stiffness Method for Structural Analysis             | <a href="https://www.youtube.com/watch?v=O11eole_42M">https://www.youtube.com/watch?v=O11eole_42M</a><br>or<br><a href="https://www.sites.google.com/views/sbpharande">https://www.sites.google.com/views/sbpharande</a> |
| 03      | Introduction of Structural Analysis   Structural Analysis            | <a href="https://www.youtube.com/watch?v=G32pY3IWe0Q">https://www.youtube.com/watch?v=G32pY3IWe0Q</a><br>or<br><a href="https://www.sites.google.com/views/sbpharande">https://www.sites.google.com/views/sbpharande</a> |
| 04      | Structural Analysis: Statically Determinate Beams                    | <a href="https://www.youtube.com/watch?v=aNi_Zn_gQrA">https://www.youtube.com/watch?v=aNi_Zn_gQrA</a><br>or<br><a href="https://www.sites.google.com/views/sbpharande">https://www.sites.google.com/views/sbpharande</a> |
| 05      | Structural Analysis Lecture Notes                                    | <a href="https://nptel.ac.in/downloads/105101085/">https://nptel.ac.in/downloads/105101085/</a>  |



## Karmaveer Bhaurao Patil College of Engineering, Satara

Program with code: Mechanical Engineering (2018-19)

Class: B.E Mechanical      COURSE : Industrial Engineering

Course Coordinator: Prof. Miss. Pawar P.P.      Course Code : ME413

### List Of E-Resources

| Sr.No        | Units and Points Covered                                       | Web links   |
|--------------|--|---|
| <b>Video</b> |  |   |
| 1            | Unit 1 Introduction to Industrial Engineering                  | <a href="https://www.youtube.com/watch?v=1frZHv_G8BI">https://www.youtube.com/watch?v=1frZHv_G8BI</a>   |
| 2            | Unit 1 Productivity  | <a href="https://www.youtube.com/watch?v=Au6GGv93R5E">https://www.youtube.com/watch?v=Au6GGv93R5E</a>   |
| 3            | UNIT 2 Work Study  | <a href="https://www.youtube.com/watch?v=PMmTEaptm38">https://www.youtube.com/watch?v=PMmTEaptm38</a>   |
| 4            | UNIT 2 Work Study  | <a href="https://www.youtube.com/watch?v=ln7maaQAF7M">https://www.youtube.com/watch?v=ln7maaQAF7M</a>   |
| 5            | UNIT 2 Method Study  | <a href="https://www.youtube.com/watch?v=YelpWzN2wMQ">https://www.youtube.com/watch?v=YelpWzN2wMQ</a>   |
| 6            | UNIT 3 cycle graph, chronocycle graph                          | <a href="https://www.youtube.com/watch?v=aO1zrt4L0kl">https://www.youtube.com/watch?v=aO1zrt4L0kl</a>   |
| 7            | UNIT 3 Ergonomics  | <a href="https://www.youtube.com/watch?v=bizTD5uOKgs">https://www.youtube.com/watch?v=bizTD5uOKgs</a>   |
| <b>Notes</b> |  |   |
| 1            | UNIT 1 Introduction to Industrial Engineering and Productivity | <a href="http://textofvideo.nptel.ac.in/112107217/lec1.pdf">textofvideo.nptel.ac.in/112107217/lec1.pdf</a>  |
| 2            | UNIT 2 Work Study  | <a href="http://textofvideo.nptel.ac.in/112107143/lec9.pdf">http://textofvideo.nptel.ac.in/112107143/lec9.pdf</a>   |
| 3            | UNIT 2 Method Study  | <a href="https://vishalshindeblog.files.wordpress.com/2017/02/unit-ii-ie.pdf">https://vishalshindeblog.files.wordpress.com/2017/02/unit-ii-ie.pdf</a>   |
| 4            | UNIT 2 Method Study  | <a href="http://textofvideo.nptel.ac.in/112107143/lec9.pdf">http://textofvideo.nptel.ac.in/112107143/lec9.pdf</a>   |
| 5            | UNIT 2 Outline Process Flow Chart   Method Study               | <a href="http://www.yourarticlelibrary.com/ergonomics/method-study/outline-process-flow-chart-method-study-with-statistics/34499">http://www.yourarticlelibrary.com/ergonomics/method-study/outline-process-flow-chart-method-study-with-statistics/34499</a> |
| 6            | UNIT 3 Charts Used in Motion Study                             | <a href="http://www.economicdiscussion.net/engineering-economics/charts-used-in-motion">http://www.economicdiscussion.net/engineering-economics/charts-used-in-motion</a>   |
| 7            | UNIT 3 Ergonomics  | <a href="https://mimihassim.files.wordpress.com/2013/03/aa-note-8-ergonomics-psychological.pdf">https://mimihassim.files.wordpress.com/2013/03/aa-note-8-ergonomics-psychological.pdf</a>   |
|              |  |   |
|              |  |   |

*P. Pawar*  
Course Teacher

*W.P.*  
HOD  
H.O.D.

Mechanical Engineering Department  
K.B.P College of Engineering, Satara





Rayat Shikshan Sanstha's  
**Karmaveer Bhaurao Patil College of Engineering, Satara**  
**Electronics Engineering Department**

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**ICT Tools**

**Course: Digital Signal Processing**

**Class: B.E.(Electronics)**

1. MATLAB for Signal Processing
2. <https://sites.google.com/site/dilipaldar/dsp>
3. Remind, <http://rmd.me/b?rid=61871320>
4. Testmoz , <https://testmoz.com/>
5. KAHOOT!, <https://kahoot.com/>

  
Course Coordinator



Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Electronics Engineering (EN62704)

Subject:- Information Theory and Coding Techniques

EI-404

Video Link and web references

B-E-52

| Sr. No. | Name   | Video URL   |
|---------|--|---|
| 1       | Information Theory   | <a href="https://youtu.be/nvmo9voRiSs">https://youtu.be/nvmo9voRiSs</a>   |
| 2       | Entropy  | <a href="https://youtu.be/LodZWzrbayY">https://youtu.be/LodZWzrbayY</a>   |
| 3       | Journey into information theory  | <a href="https://youtu.be/d9alWZRzBWk">https://youtu.be/d9alWZRzBWk</a>   |
| 4       | Information theory: Entropy  | <a href="https://youtu.be/hzdVX1ong18">https://youtu.be/hzdVX1ong18</a>   |
| 5       | Concept of information theory(Entropy)                                       | <a href="https://youtu.be/yopag1T_VZ0">https://youtu.be/yopag1T_VZ0</a>   |
| 6       | Entropy and data compression   | <a href="https://youtu.be/y5VdtQSqiAI">https://youtu.be/y5VdtQSqiAI</a>   |
| 7       | Introduction to information theory and coding                                | <a href="https://youtu.be/f8RvFlr5wRk?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/f8RvFlr5wRk?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 8       | Definition of Information Measure and Entropy                                | <a href="https://youtu.be/TT5Wm9jDR2A?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/TT5Wm9jDR2A?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 9       | Adjoint of An Information Source, Joint and Conditional Information Measures | <a href="https://youtu.be/noIO1zOQzGo?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/noIO1zOQzGo?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 10      | Block Code and Its Properties  | <a href="https://youtu.be/5d9O530dUKQ?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/5d9O530dUKQ?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 11      | Block Code and Its Properties  | <a href="https://youtu.be/5d9O530dUKQ?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/5d9O530dUKQ?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 12      | Shannon's First Theorem  | <a href="https://youtu.be/iyBxj-zHj8?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/iyBxj-zHj8?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a>   |
| 13      | Coding Strategies and Introduction to Huffman Coding                         | <a href="https://youtu.be/SynsccG_9UA?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/SynsccG_9UA?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 14      | Huffman Coding and Proof of its Optimality                                   | <a href="https://youtu.be/-eJF0gs8OY0?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/-eJF0gs8OY0?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 15      | Shannon code   | <a href="https://youtu.be/ayhIxVruSpE?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/ayhIxVruSpE?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 16      | Huffman code   | <a href="https://youtu.be/iqrIRgAzZlA?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/iqrIRgAzZlA?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 17      | Shannon-Fanon Coding   | <a href="https://youtu.be/MAOuXKkz-1?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/MAOuXKkz-1?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a>   |
| 18      | Properties of different Information Channels                                 | <a href="https://youtu.be/rfbCUU2xves?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV">https://youtu.be/rfbCUU2xves?list=PLmuBRz6TM7cGeCqbGWnvQmfpL58yw0jDV</a> |
| 19      | Cyclic codes   | <a href="https://youtu.be/FPmFMUoxsiQ">https://youtu.be/FPmFMUoxsiQ</a>   |
| 20      | Cyclic Redundancy Check  | <a href="https://youtu.be/GpwjT2ZXqvI">https://youtu.be/GpwjT2ZXqvI</a>   |
| 21      | Codes  | <a href="https://youtu.be/TeSzUKCOYjMycyclic">https://youtu.be/TeSzUKCOYjMycyclic</a>   |
| 22      | Cyclic Codes   | <a href="https://youtu.be/WgaaWsO5QAE">https://youtu.be/WgaaWsO5QAE</a>   |
| 23      | Checksum   | <a href="https://youtu.be/KxDVEhLPUSY">https://youtu.be/KxDVEhLPUSY</a>   |
| 24      | Codes  | <a href="https://youtu.be/1A_NcXxdoCchamming">https://youtu.be/1A_NcXxdoCchamming</a>   |
| 25      | Generating Cyclic Codes  | <a href="https://youtu.be/ENr9z7aC1W8">https://youtu.be/ENr9z7aC1W8</a>   |
| 26      | h/w Implementation of Cyclic Codes   | <a href="https://youtu.be/JQ6Ad4fCGIo">https://youtu.be/JQ6Ad4fCGIo</a>   |
| 27      | BCH Codes  | <a href="https://youtu.be/P8N68YR68-g">https://youtu.be/P8N68YR68-g</a>   |
| 28      | Minimal Polynomial   | <a href="https://youtu.be/EAx0fBXraUM">https://youtu.be/EAx0fBXraUM</a>   |
| 29      | Examples of Minimal polynomial   | <a href="https://youtu.be/FeccegfvA-Pg">https://youtu.be/FeccegfvA-Pg</a>   |
| 30      | RS Code  | <a href="https://youtu.be/3o-R0wOu2uQ">https://youtu.be/3o-R0wOu2uQ</a>   |
| 31      | Convolutional Codes  | <a href="https://youtu.be/VOlhznDawlo">https://youtu.be/VOlhznDawlo</a>   |

### Web References

|   |   |
|---|---|
| 1 | <a href="https://sites.google.com/site/kbpjdnaware">https://sites.google.com/site/kbpjdnaware</a> |
| 2 | <a href="http://www.ee.iitm.ac.in">www.ee.iitm.ac.in</a>  |
| 3 | <a href="http://www.nptelvideos.in">www.nptelvideos.in</a>  |
| 4 | <a href="https://www.youtube.com/user/nptelhrd">https://www.youtube.com/user/nptelhrd</a>         |
| 5 | <a href="https://www.sciencedirect.com">https://www.sciencedirect.com</a>                         |
| 6 | <a href="https://www.ee.iitb.ac.in">https://www.ee.iitb.ac.in</a>                                 |
| 7 | <a href="https://www.slideshare.net">https://www.slideshare.net</a>                               |
| 8 | <a href="https://www.techopedia.com/definition">https://www.techopedia.com/definition</a>         |

Namavare J.S.





Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering, Satara

Academic Year: 2018-19

Semester-II

Name of the Program: Electronics

Class: S.Y. Btech

Name of the Course: Microprocessor

Course Code: BTEX0403

List of Web References

| Sr. no. | URL   | Content  |
|---------|---|--|
| 1       | <a href="https://www.tutorialspoint.com/microprocessor">https://www.tutorialspoint.com/microprocessor</a>   | <ul style="list-style-type: none"><li>• Microprocessor - 8085 Architecture</li><li>• Microprocessor - 8086 Instruction Sets</li><li>• Microprocessor - I/O Interfacing Overview</li><li>• Microprocessor - 8257 DMA Controller</li></ul> |
| 2       | <a href="https://www.geeksforgeeks.org">https://www.geeksforgeeks.org</a>                                   | <ul style="list-style-type: none"><li>• Bus organization of 8085 microprocessor</li><li>• Instruction cycle in 8085 microprocessor</li><li>• Differences between 8085 and 8086 microprocessor</li></ul>                                  |
| 3       | <a href="https://www.javatpoint.com/8086-microprocessor">https://www.javatpoint.com/8086-microprocessor</a> | <ul style="list-style-type: none"><li>• 8086 microprocessor</li><li>• Multiprocessor Configuration Overview</li><li>• Memory and I/O Interfacing</li></ul>   |

*Jhat*  
Hatte S.C.