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		Criterion- IV
		Metric - 4.2.2

4.2.2	E-resources Local NPTEL Video Server
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NPTEL (National Programme on Technology Enhanced Learning) is a project initiated by the Indian government to provide quality educational content in the form of video lectures and course materials in engineering, science, and humanities. NPTEL courses are designed to enhance the learning experience of students and educators across India.

An NPTEL Local Server, also known as an NPTEL SWAYAM Local Chapter Server, is a system that allows educational institutions to host NPTEL course content on their own local servers. This setup is particularly useful in places with limited or unreliable internet connectivity. By hosting the content locally, students and faculty members can access the NPTEL courses without needing a continuous internet connection.

Link is: <http://10.9.150.93/>

Figure 1: NPTEL Web Courses Local Server Home Page



[Click here to open NPTEL Web Courses](#)

Discipline-Wise Video Courses

Aerospace Engineering	Atmospheric Science	Basic courses(Sem 1 and 2)	Biotechnology
Chemical Engineering	Chemistry and Biochemistry	Civil Engineering	Computer Science and Engineering
Electrical Engineering	Electronics & Communication Engineering	Engineering Design	Environmental Science
General	Humanities and Social Sciences	Management	Mathematics
Mechanical Engineering	Metallurgy and Material Science	Mining Engineering	Nanotechnology
Ocean Engineering	Physics	Textile Engineering	

- **Required Software**
 - Latest firefox browser: [Click here to download | 32 bit](#) | [64 bit](#)
 - Install flash player in browser [Click here to download](#)
 - Click on the Discipline to view list of courses
 - The NPTEL index list may be modified by the institute, as required.
- **Instructions**
 - Please read the Readme.txt for details on how to setup the NPTEL Index.
 - This index has been provided to refer the NPTEL Web and Video course contents.
 - Click on the Discipline to view list of courses
 - The NPTEL index list may be modified by the institute, as required.




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Figure 2: NPTEL Web and Video Courses

 NPTEL - Web and Video Courses

subjectId	Discipline Name	Subject Name	Coordinators	Type	Institute	Content
104104066	Chemistry and Biochemistry	Advance Analytical Course	Dr. Padma S Vankar	Video	IIT Kanpur	Select
104104011	Chemistry and Biochemistry	Chemistry of Materials	Prof. S. Sundar Manoharan	Video	IIT Kanpur	Lecture-01 Advance Analytical Course Lecture-02 Advance Analytical Course Lecture-03 Advance Analytical Course Lecture-04 Advance Analytical Course Lecture-05 Advance Analytical Course Lecture-06 Advance Analytical Course Lecture-07 Advance Analytical Course Lecture-08 Advance Analytical Course Lecture-09 Advance Analytical Course Lecture-10 Advance Analytical Course Lecture-11 Advance Analytical Course Lecture-12 Advance Analytical Course Lecture-13 Advance Analytical Course Lecture-14 Advance Analytical Course Lecture-15 Advance Analytical Course Lecture-16 Advance Analytical Course Lecture-17 Advance Analytical Course Lecture-18 Advance Analytical Course Lecture-19 Advance Analytical Course
104105031	Chemistry and Biochemistry	Bio-inorganic chemistry	Prof. D. Ray	Video	IIT Kharagpur	Select
104105033	Chemistry and Biochemistry	Co-ordination chemistry (chemistry of transition elements)	Prof. D. Ray	Video	IIT Kharagpur	Select
104105034	Chemistry and Biochemistry	Heterocyclic Chemistry	Prof. D.R. Mal	Video	IIT Kharagpur	Select
104105038	Chemistry and Biochemistry	Organic photochemistry and pericyclic reactions	Dr. N.D. Pradeep Singh	Video	IIT Kharagpur	Select
104105041	Chemistry and Biochemistry	Rate processes	Dr. M. Halder	Video	IIT Kharagpur	Select
104106048	Chemistry and Biochemistry	Principles and Applications of Electron Paramagnetic Resonance Spectroscopy	Prof. Ranjan Das	Video	IIT Madras	Select
104108055	Chemistry and Biochemistry	Essentials in Immunology	Dr. R. Manjunath, Dr. Dipankar Nandi, Prof. Anjali Karande	Video	IISc Bangalore	Select
104108057	Chemistry and Biochemistry	Introductory Quantum Chemistry	Prof. K.L. Sebastian	Video	IIT Bangalore	Select
104108062	Chemistry and Biochemistry	Introduction to Organometallic Chemistry	Prof. A.G. Samuelson	Video	IIT Bangalore	Select
102105034	Chemistry and Biochemistry	BioChemistry I	Prof. S. Dasgupta	Video	IIT Kharagpur	Select
104104026	Chemistry and Biochemistry	Mathematics for Chemistry	Dr. Madhav Ranganathan Dr. P.P. Thankachan	Video	IIT Kanpur IIT Roorkee	Select
104105039	Chemistry and Biochemistry	Polymer Chemistry	Dr. D. Dhara	Video	IIT Kharagpur	Select
104108056	Chemistry and Biochemistry	Eukaryotic Gene Expression - basics and benefits	Prof. P.N. Rangarajan	Video	IISc Bangalore	Select

Figure 3: NPTEL local server playing the video using Flash player

 NPTEL - Web and Video Courses

Heterocyclic Chemistry

Prof. D. R. Mal

Department of Chemistry
IIT Kharagpur

Lecture - 03

▶ 0:10 / 59:44