

K. K. Wagh Education Society's

K. K. Wagh Institute of Engineering Education and Research, Nashik



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Virtual Lab Nodal Centre

Introduction:

K.K. Wagh Institute of Engineering Education and Research, Nashik has been set up as a nodal centre for virtual labs by the Ministry of Human Resource Development through its ICT running under the National Education Mission.

K.K. Wagh Institute of Engineering Education and Research, Nashik is the first Nodal Centre in Nashik region established in the July 2020 under the able guidance and motivation of **Dr.K.N.Nandurkar**, Principal, K.K.W.I.E.E.R, Nashik

Dr.D.M. Chandwadkar (H.O.D, Dept. of E&TC Engg.) has been appointed as a Nodal Centre Coordinator at Institute level and **Dr.S.A. Patil (Ugale)** as a Nodal Technical Coordinator and also different coordinators are appointed at department level.

Virtual Labs:

Virtual Labs project is an initiative of Ministry of Human Resource Development (MHRD), Government of India under the aegis of National Mission on Education through Information and Communication Technology (NMEICT). This project is a consortium activity of twelve participating institutes and IIT Delhi is coordinating institute. It is a paradigm shift in ICT-based education. A virtual laboratory is a tool for distance learning and/or experimentation that allows people to share knowledge, data, voice, video, tools, and many other resources. It provides a suitable environment to extend, improve, integrate, refine, and assist the learning and/or experimentation process of many subjects, thus contributing to an increase of the effectiveness of scientific research and widening the use of scarce or costly equipments. Under the

Virtual Labs project, more than 100 virtual labs with around 700+ web-enabled experiments were designed for remote operation and viewing.

Physical distances and the lack of resources make us unable to perform experiments, especially when they involve sophisticated instruments. Web-based and video-based courses address the issue of teaching to some extent. Conducting joint experiments by two participating institutions and also sharing costly resources has always been a challenge. With the present-day internet and computer technologies the above limitations can no more hamper students and researchers in enhancing their skills and knowledge.

Objectives of Nodal Centre:

- To develop interface between departments and Nodal centre at college
- To identify experiments from Vlabs IIT Bombay that could be performed at Nodal Centre of the college in consultation with departmental coordinators.
- To develop interface between Outreach Team of Virtual Labs, IIT Bombay and College
- To conduct training sessions for students and faculty members of the college
- To work towards making Virtual labs popular among students
- To collect feedback for experiments of different labs
- To provide feedback report and monthly utilization report to Virtual Labs, IIT Bombay
- To organise outreach programme for students and faculty members of neighbouring colleges

Nodal Centre Department Coordinator List:

| Sr.No. | Name of Coordinator | Department |
|---------------|----------------------------|---------------------------------|
| 1 | Mr. S. N. Derle | Chemical |
| 2 | Mr. U. K. Gaikwad | I.T |
| 3 | Mr. N. V. Patil | Mechanical |
| 4 | Mr. N. S. Sonawane | Computer |
| 5 | Mr. N. A. Ahire | Civil |
| 6 | Mr. S. A. Zalte | E&TC |
| 7 | Dr.A.C. Pawar | Applied Science and Mathematics |
| 8 | Mr. N. S. Wakchaure | Production |

| | | |
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| 9 | Mr. A. A. Vaidya | Civil |
| 10 | Ms. M. R. Rade | Electrical |
| 11 | Ms. S. K. Choudhari | MCA |