

Kamla Nehru Institute of Technology (KNIT) Sultanpur

KNIT Sultanpur was initially established as the Faculty of Technology in the year 1976 by Kamla Nehru Memorial Trust. Later, in the year 1983 it was registered as a separate society and re-named as the Kamla Nehru Institute of Technology. The Institute is one of the leading technical Institutions of the region and is responsible for producing best engineers with skill sets comparable with the best in the world. This institute is fully aware of its social responsibilities and is addressing the issues of application of technology to the industry. It also renders the testing and consultancy services to the neighbouring industries and various other agencies. The Institute is presently academically autonomous, affiliated to Dr. Abdul Kalam Technical University, (formerly Uttar Pradesh Technical University, Lucknow) Lucknow.

Department of Applied Sciences and Humanities .

The APSH department is an allied department which serves as a bedrock for the engineering departments of the institute. The department takes care of core subjects like mathematics, physics, chemistry, management and professional communications. The APSH Department is one of the oldest and flagship departments of the Institute. The department has well-qualified faculty and technical supporting staffs.

Department of Mechanical Engineering

The Mechanical Engineering Department is among the oldest departments of the Institute. The department has a well qualified faculty and technical supporting staff. All the laboratories of the department are well equipped with modern equipments. The department offers U.G. as well as P.G. (Full Time) and P.G. (Part Time) courses. The department has acquired state of the art equipments through World Bank assisted TEQIP programme.

ORTA-2020

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Registration Process:

There is no registration fee. Fill the application form and get attested by the Head of Institute/College and please send scanned copy of this form to: hkm1975@yahoo.co.in on or before 1st Feb 2020. Also submit the hard copy of this application form on the first day of STC, failing which your candidature will not be considered.

Contact Person:

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One Week Short Term Course on "Operation Research: Techniques and Applications (ORTA-2020)"

FEBRUARY 03-07, 2020

Under the aegis of
TEQIP-III Project



JOINTLY ORGANIZED

By

**Department of Mechanical Engineering
KNIT, Sultanpur, U. P.-228118, India**

&

**Department of Applied Sciences and Humanities
KNIT, Sultanpur, U. P.-228118, India**

About ORTA-2020

“Operations research” (OR) is described as an analytical method of problem-solving and decision-making used in managing businesses or organizations. It involves the application of advanced quantitative techniques in order to arrive at a decision or solution to a problem. The decades after that OR techniques are applied widely to the problems in the areas such as manufacturing, inventory management, supply chain management, finance, project management, health care, and education. Today, OR is used by virtually every business and government throughout the world and remains an active area of academic research and pedagogy. The course on Operations Research has got a place in the curriculum of almost every engineering/management undergraduate and postgraduate programs. In the view of this, we are proposing a short term ONE week TEQIP III course on Operations Research with an emphasis on its underlying techniques and application areas.

Topics to be covered:

- **Fundamentals of Linear programming problems (LPP)**
- **Simplex algorithm for solution of LPP**
- **Inventory models**
- **Transportation, assignment problem**
- **Supply chain Management**
- **Integer programming**
- **Dynamic programming**
- **Fundamentals of Queuing theory**
- **Game theory**

About organizing place

Sultanpur is a city and district in the Indian state of Uttar Pradesh. Located on the right banks of the Gomti (a major tributary of the Ganga River), Sultanpur is the administrative headquarters of Sultanpur District and is a part of Ayodhya Division. It is situated 135 kms east of state capital Lucknow. The common language of the people of Sultanpur is Awadhi, a dialect of Hindi. Places of interest in Sultanpur are, Parijaat tree, Sitakund ghat etc. The city has a large number of temples and palaces.

Who Can Attend?

The course will be useful for the faculty members / Doctoral & PG students of different Universities/ Institutes/ colleges & Professionals working in the Industries. Limited number of U.G. students may also be selected based on the availability of seats. Selected candidates will be informed through email.

Selection Criteria

Selection will be done based on first-come-first-serve basis to a maximum number of 40 (forty). The list of selected participants will be intimated through e-mail. The certificate will be issued to candidate on successful completion of the course.

Boarding and lodging will be provided to out stationed participants in hostels. No charges for institutional Candidates having TEQIP project.

Registration form

**Operation Research: Techniques and Applications
(ORTA-2020)
Feb 03–07, 2020
Sponsored by TEQIP-III**

Jointly Organized by

**Department of Mechanical Engineering, KNIT Sultanpur
&
Department of Applied Sciences and Humanities, KNIT
Sultanpur**

Full Name-----
(in BLOCK letters, as desired on certificate)

Designation & Dept:: -----

Affiliation: -----

Highest qualification: -----

Experience (if any): Teaching: ----- Industry: -----

Address for correspondence: -----

Mobile: -----

Email: -----

Accommodation required: YES/NO

Attending the STC: Manual

Signature of the Applicant

Sig. & Stamp of Approving Authority
