TECHNOCRATS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER

Date: 4/Feb/2024

Estd : 1999

What is predictive maintenance?

Predictive maintenance is an equipment maintenance strategy that relies on real-time monitoring of equipment conditions and data to credit equipment failures. Advanced data models, analytics and machine learning (ML), can reliably assess when and when were failures are most likely to occur, including which components are most likely to be affected.

Predictive Maintenance Software

Predictive Maintenance Software is a technique that efficiently helps your business learn about any necessary impending maintenance and carry it out before the equipment in service actually wears or breaks down.

Predictive Maintenance Software analyze the in-service equipment and accurately make suggestions on the time and extent of maintenance to be carried out.

$12M   78% ↓

Predictive Maintenance Software
Support for management and decision making
Visualization of predictive analytics
Integration with other business software
Condition indicator design

Benefits of Predictive Maintenance

Revenue Recovery — Smart Replacement — Asset Availability — Planned Maintenance Reduction — Workforce Improvement — **PREDICTIVE MAINTENANCE** — Internet of Things — Risk Reduction — Service Loss Reduction

How does predictive maintenance work?

Predictive maintenance evaluates the condition of industrial equipment by performing periodic or continuous (online) equipment condition monitoring. Data is received from an array of smart sensors connected to the equipment and to a centralized or decentralized network of hardware and software. The predictive maintenance system is designed to parse out data patterns from interconnected sensor data and predict when maintenance should be scheduled. It is generally performed while equipment is operating normally to minimize disruption of everyday operations in a factory, assembly line, or other industrial settings.

Editorial Team

Faculty Co-ordinator

Prof. Mr. Chaitanya Shrivastava

Students Co-ordinator

1. Aachal Soni
2. Tikesh Kardate
3. Nawneet Pratap Singh
4. Shailendra Singh