

VPKBIET, BARAMATI.
QEEE PILOT PROGRAM CENTER

QEEE: AUG – NOV 2017

QEEE OFFERED COURSES

**** Regular Core Engineering Topics for Students ****

- 1) **Baseband Communication - Digital Communication Techniques**
Prof. Arun Pachai Kannu, IITM
- 2) **Basic Concepts and First Law of Thermodynamics - Engineering Thermodynamics**
Prof. P.M.V. Subbarao, IITD
- 3) **Beams - Design of Steel Structures**
Prof. S R Satish Kumar, IITM
- 4) **Compass Surveying and Plane Table Surveying - Surveying**
RAAJ Ramsankaran, IITB
- 5) **Concepts in Fluid Mechanics - Fluid Mechanics**
Dr.Suman Chakraborty, IITKGP
- 6) **Constitution of Alloys and Phase Diagrams - Engineering Material and Metallurgy**
Prof. Sushanta Kumar Panigrahi, IITM
- 7) **Design with OPAMP - Linear Integrated Circuits**
Prof. Hitesh Shrimali, IITMN
- 8) **Electromagnetic Waves - Electromagnetic Theory**
Prof.Deepa Venkitesh, IITM
- 9) **Induction Machines:Theory - Electrical Machines**
Prof. Bhuvaneshwari G, IITD
- 10) **Intermediate Code Generation - Principles of Compiler Design**
Prof. Supratim Biswas, IITB
- 11) **Introduction to DBMS - Database Management Systems**
Prof. Pabitra Mitra, IITKgp
- 12) **Joining Processes - Manufacturing Technology**
Prof. Sushanta Kumar Panigrahi, IITM

- 13) **Matrix Stiffness Method - Structural Analysis**
Prof. Sushanta Chakraborty, IITKgp
- 14) **Memory and IO - Advanced Computer Architecture**
Prof. Venkatesh TG, IITM
- 15) **MOS Transistor Principle - Digital VLSI**
Prof. Deleep Nair, IITM
- 16) **Operating Systems Overview - Operating Systems**
Prof. Sandip Chakraborty, IITKGP
- 17) **Programming Style - Programming and Data Structures**
Prof.Rajib Mall, IITKgp
- 18) **Railway Planning and Construction - Railways and Airports Engineering**
Prof. Nagendra R Velaga, IITB
- 19) **Stability Analysis of Nonlinear Systems - Control Systems**
Prof. Tushar Jain, IITMN
- 20) **Water Treatment - Water Supply Engineering**
Prof. Ligy Phillip, IITM

**** Regular Core Engineering Topics for Faculty Training ****

With an objective to enhance the faculty's pedagogical and intellectual exposure, senior IIT Faculty will train the local faculty on the topics which were delivered in QEEE so that local faculty can deliver the topic to students using Coursepack. The training is a remote session for 2 hrs. A certificate is awarded to local faculty who delivers the topic and administers the proctored exam to students

- 1) **Analysis by Slope-deflection Method**
Prof.Devdas Menon, IITM
- 2) **Chemical Reaction Engineering**
Prof.Krishnaiah K, IITM
- 3) **Digital System Design - Digital Electronics**
Prof. Venkatesh TG, IITM
- 4) **Fundamental Concepts in Fluid Mechanics - Fluid Mechanics**
Dr.Suman Chakraborty, IITKGP
- 5) **Pointers - Programming in C and Data Structures**
Prof. Supratim Biswas, IITB
- 6) **Program Testing**
Prof.Rajib Mall, IITKgp