Reach Out

October 2015

A Newsletter of CDEEP, IIT Bombay

Excellence in education through distance

Newly added courses in CDEEP Archieval

○ Convex Optimization by Prof Saketha Nath, Computer Science Department.
○ Leadership and Vision by Prof. Atanu Ghosh, School of Management.

Some upcoming courses

○ ME779 Control Systems by Prof. D NManik
(For updates about upcoming courses visit http://www.cdeep.iitb.ac.in/cdeep_sem_courses.php)

Important links of CDEEP

○ Access courses of CDEEP
  http://www.cdeep.iitb.ac.in/vod/vodCloud/login.php
○ Project MHRD - TEQIP - KITE
  http://www.cdeep.iitb.ac.in/TEQIP.php
○ Order course's videos to download or copy in storage media
  http://epay.cdeep.iitb.ac.in:8080/order_courses
○ Previous issues of Reach Out on CDEEP site
  http://www.cdeep.iitb.ac.in/reach_out.php

PG DIPLOMA (PGD) OF IIT BOMBAY IN DISTANCE MODE

Many participants of distance education aspire to get a validation of the education they take. This is now possible.

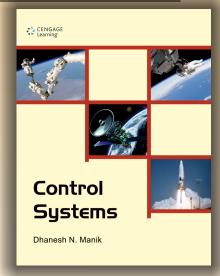PGD of IIT Bombay is one such avenue now available in Distance mode.

Now, a qualified person can get Post Graduate Diploma of IIT Bombay through CDEEP.

The admission to Post Graduate courses of IIT Bombay happens once in a year usually in the month of May. One could get admitted to a PGD by following the procedure for admissions as given by the Academic Section of IIT Bombay. Further interaction till the completion of the PGD shall be through CDEEP. The participant gets to share Learning Management System of a course (Moodle page) with other participants which offers opportunity to get clarification/ answer to any course related query. This has been found to be a very effective way of learning.

More details on PGD are available at http://www.cdeep.iitb.ac.in/pgd.php

![Reach Out logo]

Overview and features

Control Systems presents the fundamentals of control systems to students in a clear and concise manner.
The emphasis is more on learning the physics of control system theory and to use some basic mathematics to obtain solutions for feedback control systems.

- Specially designed for an undergraduate course on control systems
- Detailed emphasis on physics and mathematics of control systems
- Proper sequencing of sections, with qualitative discussions at relevant points throughout
- Excellent pedagogy includes example problems, review questions, multiple choice questions, and exercise problems
- Answers to multiple choice questions
Nicely drawn and clearly labeled diagrams supplementing the text
- New techniques for plotting Bode and root-locus plots
- Mini solutions manual and computer programs (Scilab) for exercise problems will be available at http://www.me.iitb.ac.in/~dnm/ControlSystems/
- Useful to practicing engineers also

About the author

Dhanesh N. Manik graduated with a bachelor's degree in mechanical engineering from Mysore University in 1982, master's degree in mechanical engineering from Indian Institute of Science (I.I.Sc.), Bangalore, in 1985, and PhD in mechanical engineering from Auburn University, U.S.A, in 1991. He has also briefly worked at Hindustan Aeronautics (Helicopter Division, Flight Controls Group), Bangalore, from 1985 to 1986. He joined the faculty of Indian Institute of Technology Bombay (IITB) in 1992 and is currently a professor in mechanical engineering. His main areas of interest are control systems, statistical energy analysis (SEA) and machinery diagnostics.

Author's webpage:

http://www.me.iitb.ac.in/wiki/doku.php?id=dnmanik

Contact us at:
CDEEP,
Ground Floor, Maths Buliding, IIT bombay
Webpage : www. cdeep.iitb.ac.in
Phone : 022-25764820
Email: cdeep@iitb.ac.in