AICTE Sponsored QIP Short Term Interdisciplinary Course on
"Recent Trends in Control System and Applications"
July 01 to 05, 2019

Department of Instrumentation Engineering
SGGS Institute of Engineering and Technology, Nanded
Course Schedule:

Registration and inauguration of the course: 10.00-10.30 am on July 1, 2019   Venue: A4 Hall

Day/Time		Session 1: 10.30-12.30		Session 2: 13.30-15.30		Session 3: 15.45-17.45
Monday July 1		Overview of Control System and Design Challenges **Dr. K. K. Mangrulkar** (Scientist-G, Retd. DRDL Hyderabad)		Sliding Mode Control (SMC): Introduction **Mr. D. D. Dhadekar** (Research Scholar, DIAT, Pune)		Sliding Mode Control: Theoretical Developments **Mr. D. D. Dhadekar** (Research Scholar, DIAT, Pune)
Tuesday July 2		SMC and DSMC in Process Control **Dr. A. A. Khandekar** (Zeal College of Engineering and Research, Pune)		DSMC for Time-delay Systems **Dr. A. A. Khandekar** (Zeal College of Engineering and Research, Pune)		CSMC with PI sliding surface **Dr. A. A. Khandekar** (Zeal College of Engineering and Research, Pune)
Wednesday July 3	**Break Fast 9.30-10.30**	Uncertainty and Disturbance Estimator (UDE): Introduction **Dr. S. E. Talole** (Scientist-G, Research & Development Establishment (Engineers), Dighi, Pune)	**Lunch Break 12.30-13.30**	UDE based Controller-Observer Structure **Dr. S. E. Talole** (Scientist-G, Research & Development Establishment (Engineers), Dighi, Pune)	**Tea Break 15.30-15.45**	Advances in UDE based Control Design **Dr. S. E. Talole** (Scientist-G, Research & Development Establishment (Engineers), Dighi, Pune)
Thursday July 4		SMC for Multi-Time-Scale system with application to Nuclear Reactor **Dr. R. K. Munje** (K. K. Wagh Institute of Engineering Education and Research, Nashik)		Control and Estimation by Multi-Time-Scale Observers and Application to AHWR **Dr. R. K. Munje** (K. K. Wagh Institute of Engineering Education and Research, Nashik)		Hands-on Session on Implementation of SMC with Examples **Mr. D. D. Dhadekar** (Research Scholar, DIAT, Pune)
Friday July 5		Active Disturbance Rejection Control (ADRC): Introduction **Dr. Bhavnesh Panchal** (TCS, Pune)		Active Disturbance Rejection Control (ADRC): Theory and Applications **Dr. Bhavnesh Panchal** (TCS, Pune)		Hands-on Session on Implementation of UDE-SMC with Examples **Dr. B. M. Patre** (Professor, SGGSIE&T, Nanded)

Dr. B. M. Patre,
Dr. R. H. Chile,
Dr. S. T. Hamde
Course Coordinators