NBA ACCREDITATION AND
TEACHING-LEARNING IN ENGINEERING
(NATE)

PROF. N J RAO
IISc Bangalore

PROF K RAJANIKANTH
MSRIT

TYPE OF COURSE : Rerun | Elective | PG
COURSE DURATION : 12 weeks (18 Jan’ 21 - 9 Apr’ 21)
EXAM DATE : 25 Apr 2021

PRE-REQUISITES : Degree in Engineering
INTENDED AUDIENCE : Working and aspiring engineering teachers
INDUSTRIES APPLICABLE TO : Educational Institutions, Corporate Training

COURSE OUTLINE :
The quality of Teaching and Learning in Engineering has come to be an important issue in India to all stakeholders including teachers, students, parents, Managements, University, AICTE, NBA, and Industry, especially after the introduction of new Accreditation Process introduced by NBA in 2015. The quality of learning of the graduating engineers determines the quality of their placements. While there was significant research in the last few decades in our understanding of how people learn, there have not been many intersections of this knowledge with the instructional practices at institutions of higher learning. The dominant instructional method still remains lecturing. Industry, Regulatory Bodies and Accreditation Agencies in India want the engineering graduates to attain a set of Program Outcomes (knowledge, skills, and attitudes) which are discipline agnostic and a set of Program Specific Outcomes identified by the Department offering the program. The curriculum of a program decides the nature of learning experiences, including the courses, projects, internships, and co-curricular and extra-curricular activities.

ABOUT INSTRUCTOR :

Presently a Consulting Professor at International Institute of Information Technology (IIIT), Bangalore, a member of several committees associated with NBA, and a member of the Core Committee that defined the new Accreditation processes of NAAC.

Prof K Rajanikanth is Former Advisor, Principal, Professor in Information Science & Engineering - M S Ramaiah Institute of Technology (MSRIT).

COURSE PLAN :
Week 1: Learning Outcomes, OBE and Accreditation
Week 2: Outcomes and Cognition
Week 3: Knowledge Categories, and Affective and Psychomotor Domains
Week 4: Course Outcomes
Week 5: Course Design, ADDIE and Analysis Phase
Week 6: Design Phase
Week 7: Development, Implement, and Evaluate Phases
Week 8: Surveys
Week 9: Instruction and Accreditation , Instruction Design
Week 10: Instructional Approaches
Week 11: NBA Criteria 1 to 3
Week 12: NBA Criteria 4 to 10 Key Words