



# NBA ACCREDITATION AND TEACHING-LEARNING IN ENGINEERING (NATE)

## PROF. N J RAO

Ü^cä!^ÄÄØæ&~|c^ÄÖ [ { ] ~c^!ÄÜ&â^}&^Äæ}äÄCE~c [ { æcä [ ] Ä IISc Bangalore

## PROF. K RAJANIKANTH

Ø [ ; { ^!ÄCEäçä• [ iÉÄÜ!ä] &ä] æ|ÉÄæ} äÄÜ! [ -^•• [ !Ä [-Ä T ÜÜQV MSRIT Bangalore

**TYPE OF COURSE** : Rerun | Elective | PG

**COURSE DURATION** : 12 weeks (24 Jan' 22 - 15 Apr' 22)

**EXAM DATE** : 24 Apr 2022

**PRE-REQUISITES** : Degree in Engineering

**INTENDED AUDIENCE** : Working and aspiring engineering teachers

**INDUSTRIES APPLICABLE TO** : Educational Institutions, Corporate Training

## COURSE OUTLINE :

V@^Ä ~ æ|äc^Ä [-ÄV^æ&@ä] \*Äæ} äÄS^æ!} ä} \*Ää} ÄÖ} \*ä} ^!ä} \*Ä@æ•Ä& [ { ^Äc [ Ää^Äæ} Ää { ] [ iææ} çÄä•• ^Ää} ÄQ} ääæÄc [ Äæ||Ä] cæ\^@ [ |ä!•Ä ä}&|~ ää} \*Äc^æ&@^!•ÉÄ•c^ ä^}c•ÉÄ] æ!^}c•ÉÄ T æ}æ\*^ { ^}c•ÉÄV} äç^!•äc^ÉÄQÖVÖÉÄPÓCEÉÄæ} äÄQ} ä~c! ^ÉÄ•• ] ^Ä&äæ|| ^Äæ-c^!Äc@^Ä ä}c! [ ä~&cä [ ] Ä [-Ä] ^, ÄCE&&!^äæcæcä [ ] ÄÜ! [ &^••Ää] ç! [ ä~&^äÄä^ÄPÓCEÄä} ÄG€F ÍÉÄV@^Ä ~ æ|äc^Ä [-Ä|Äæ!} ä} \*Ä [-Äc@^Ä\*! ää~æcä} \*Ä ^} \*ä} ^!^!•äÄc^! { ä} ^!•Äc@^Ä ~ æ|äc^Ä [-Äc@^Ä!Ä] |æ&^ { ^}c•ÉÄ Y @ä|Äc@^!^Ä, æ•Ä•ä\*} ä-ä&æ} çÄ!•^!æ!&@Ää} Äc@^Ä|æ•cÄ-^, Ää^&æä^!Ää} Ä [ ~ iÄ ~} ä^!•cæ} ää} \*Ä [-Ä@ [ , ] ^ [ ] |Ä|Äæ!} ÉÄc@^!^Ää@ç^Ä} [ çÄä^Ä} Ä { æ} ^Ää} c^!•^&cä [ ] •Ä [-Äc@ä•Ä\ [ ] , |Ä^\*^Ä, äc@Äc@^Ää} •c! ~&cä [ ] æ|Ä ] |æ&cä&^!ÄæçÄä} •cäc~cä [ ] •Ä [-Ä@ä\*^!Ä|Äæ!} ä} \*ÉÄV@^Ää [ { ä} æ} çÄä} •c! ~&cä [ ] æ|Ä { ^c@ [ äÄcä|Ä|Ä^ { æä} •Ä|^&c~!ä} \*ÉÄQ} ä~c! ^ÉÄÜ^\*~|æc [ !^Ä Ö [ ää^!Äæ} äÄCE&&!^äæcæcä [ ] ÄCE\*^} &ä^!Ää} ÄQ} ääæÄ, æ} çÄc@^Ä^} \*ä} ^!ä} \*Ä\*! ää~æc^!Äc [ Äæccæä} ÄæÄ^!cÄ [-ÄÜ! [ \*!æ { ÄÜ~c& [ { ^•Ä ç\ [ ] , |Ä^\*^ÉÄ\ä|•ÉÄæ} äÄæccäc~ä^!Ä, @ä&@Äæ!^Ääi•&ä] |ä} ^!Äæ\*} [ •cä&Äæ} äÄæÄ^!cÄ [-ÄÜ! [ \*!æ { ÄÜ] ^&ä-ä&ÄÜ~c& [ { ^•Ää^} çä-ä^!Ää^Äc@^Ä Ö^] æ!c { ^} çÄ [-Ä!ä} \*Äc@^Ä] : [ \*!æ { ÉÄV@^Ä~!|ä&~| } Ä [-ÄæÄ] : [ \*!æ { Ää&ä^!Äc@^Ä} æc~!Ä! [-Ä|Äæ!} ä} \*Ä^!ç [ ^!ä^} &^!ÉÄä} &|~ ää} \*Äc@^Ä & [ ~!•^!Ä] : [ b^&c^!Ää} c^!} •@ä] •ÉÄæ} äÄ& [ É~!|ä&~|æ!Äæ} äÄ^çc!æÉ&~!|ä&~|æ!Äæ&cäçäcä^!É

## ABOUT INSTRUCTOR :

Ü! [-ÉÄPÉREÄÜæ [ ÄÉÜ!^çä [ •|^Äc@^ÄÖ@æ! { æ} Ä [-ÄÖÖVÄçÖ^] c!^Ä- [ !ÄÖ|^&c! [ ] ä&•ÄÖ^!•} Äæ} äÄV^&@ [ ] [ \*^ÉÄQÜ&Ää~!ä} \*ÄFJÌFÄ FJJÌÉÄæ} äÄÖ@æ! { æ} ÉÄÖ^] æ!c { ^} çÄ [-Ä T æ} æ\*^ { ^} çÄÜc~ ää^!Ää~!ä} \*ÄFJJÌÄG€FÍÉÄæ} äÄ•~^!äæ} } ~æc^!Äæ•ÄÜ! [-^•• [ !ÄæcÄÖÖVÄ ä}ÄR~|^ÄG€FÍÉÄÜ!^!•} ç!^ÄæÄÖ [ ] •~|çä} \*ÄÜ! [-^•• [ !ÄæcÄQ} c^!} æcä [ ] æ|ÄQ} •cäc~c^Ä [-ÄQ} - [ ; { æcä [ ] ÄV^&@ [ ] [ \*^ÄçQÜVDEÄÓæ} \*æ| [ !ÉÄæä { ^ { ä^!Ä [-Ä^!ç^!æ|Ä& [ { { äcc^!Äæ•• [ &äæc^!Ää, äc@ÄPÓCEÉÄæ} äÄæÄ { ^ { ä^!Ä [-Äc@^ÄÖ [ !^ÄÖ [ { { äcc^!Äc@æcää^!ä} ^äÄc@^Ä} ^, Ä CE&&!^äæcæcä [ ] Ä] : [ &^••^!Ä [-ÄPCECEÖÈ

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

- 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