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Department of Electrical and Electronics Engineering
Summary of 10th Board of Studies meeting held on 12.02.2022 at HOD office

Agenda:

1. Approval for III and IV year EEE syllabus and Labs --(R20) Regulation.

The following suggestions are given by distinguished BOS members.

1. BOS members have suggested include open elective- I as smart grid technologies in III Year.
2. BOS members have suggested change electrical work shop as electrical design Laborite.
3. constitution of India, Environmental science, Yoga and Sports as mandatory courses
4. BOS members have suggested to Electrical System simulation lab same as R18
5. BOS members have suggested to power electronics lab same syllabus as R18
6. BOS members have suggested include electrical distribution system as provisional elective in IV year II Sem.
7. BOS members have suggested to no change in computational electromagnetics syllabus.
8. BOS members have suggested to no change in computational electromagnetics syllabus.
9. BOS member have suggested to no change in Industrial Electrical Systems.
10. BOS members have suggested to no change in HVE.
11. BOS members have suggested in include comparison FACTS with HVDC.
12. BOS members have suggested include sequence network analysis of all the types of faults.
13. BOS members have suggested include stability evaluation.
14. BOS members have suggested include FACTS special Devices.

The committee has approved the above modification in syllabus.

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Department of Electrical and Electronics Engineering

Summary of 11th Board of Studies meeting held on 15.11.2022 at HOD office

Agenda:

1. Approval for B.Tech (R22) course structure for the academic year (2022-2023).
2. Approval for B.Tech IInd year syllabus and Labs.
3. Approval for BEE subject and BES Lab to CSE(DS & AIML) and IT.
4. Approval for BEEE subject and BEEE Lab to ME branch and CE branch.
5. Approval for FEE subject and FEE Lab to ECE branch.
6. Approval the credit distribution to HS, BS, ES, PC, PE, OE and PW.

The following suggestions are given by distinguished BOS members.

1. BOS members have suggested change Electrical Circuit Analysis –I & Lab as Electrical Circuit & Electrical Circuit Lab in Sem-I.
2. BOS members have suggested change Electrical Circuit Analysis –I & Lab as Network Analysis subject and Network Analysis Lab in Sem-II.
3. BOS members have suggested include experiment on active power for star and delta connected balanced loads. And also reactive power for star and delta connected balanced loads.
4. BOS members have suggested include node voltage/ mesh current analysis using suitable simulation tool.
5. BOS members have suggested include experiment on Resonance.
6. BOS members have suggested to change unit- I as Transient analysis of series circuits and Transient analysis of Parallel circuits.
7. BOS members have suggested to include experiment on frequency domain analysis of High pass filter.
8. BOS member have suggested simulation of two port network using suitable simulation tools.
9. BOS members have suggested change Electrical simulation tool lab as Data structure through C programming.
7. BOS members have approved credit distribution as given below
   i. HS- 11
   ii. BS – 23
   iii. ES - 22
   iv. PC – 59
   v. PE – 18
   vi. OE – 12
   vii. PW – 15
   Total = 160

The committee has approved the above modification in syllabus.

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Department of Electrical and Electronics Engineering

Summary of 12th Board of Studies meeting held on 25.11.2022 at HOD office

The BOS of the Department as approved the M.Tech course structure and syllabus as per JNTUH R22 regulation for M.Tech (Power Electronics).

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1-1-2

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Department of Electrical and Electronics Engineering

1.1.2 Percentage of programmes where syllabus revision was carried out during the last five years (20) R18

S.No.	Programme Code	Programme name	Year of Introduction	Status of implementation of subjects(Yes/No)	Year of implementation of all subjects	Justification
1	2	EEE	2018	BEE	1st yr-1sem	Basic Electrical Engineering will make aware of the fundamentals of Different types of electrical Energy with their characteristics.The basic concepts of working and functioning of the Genertaors and Motors ,Tranformers and basic house wiring and installations were dicussed.
2	2	EEE	2018	ECA	2nd yr-1sem	Electrical Circuits Analysis is the process of finding all the currents and voltages in a network of all connectd components.It is used analyze the transient and steady state behaviour of the circuits when it is subjected to switching conditions .Electrical circiuts can be solved by applying Laplace transforms and also basic understanding of Filters, magnetic circuits and network functions.
3	2	EEE	2018	EM-I	2nd yr-1sem	DC machines are vital for precise speed control in applications like steel rolling mills. Transformers facilitate efficient voltage conversion in power distribution, reducing energy loss. Both technologies are fundamental in ensuring reliable and efficient electrical systems in various industries, contributing to economic and energy savings.
4	2	EEE	2018	EMF	2nd yr-1sem	Basic Concepts of electric field, magnetiefield and also applications of electric & magnetic fields in the development of the power transmission lines were discussed. This also deals operation of conductors, dielectrics, capacitance, time varying fields & maxwells equations
5	2	EEE	2018	EM-II	2nd yr-2sem	An alternators produce alternating current, vital for power generation, distribution, and conversion. Three-phase induction machines offer robust performance in industrial settings, efficiently driving various equipment. Single-phase induction machines find applications in appliances, delivering simplicity and cost-effectiveness in household devices. All these AC machines used for industries, agriculture and domestic applications.
6	2	EEE	2018	CS	2nd yr-2sem	—
7	2	EEE	2018	PS-I	3rd yr-1sem	The Power generation concepts were discussed along with the power distribution methods. The basic contruction and working of substations and cabled will be awared. The Economic aspects of electrical energy and different types tarrif methods were discused.
8	2	EEE	2018	PE	3rd yr-1sem	Power Electronics includes the application of electronics to control and conversion of electric power with a deep knowledge on chopper circuits and ac voltage controllers.This also deals with the characteristics and performance of various power electronic devices.these also includes single and three phase controlled rectifier and inverters with the performance characteristics.

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9	2	EEE	2018	EMD	3rd yr-1sem	Electrical machine design is a critical engineering discipline focused on creating efficient and reliable devices like motors and generators. Engineers in this field combine electrical and mechanical principles to optimize performance, size, and cost. It's crucial for industries ranging from manufacturing to renewable energy, shaping our technological landscape.
10	2	EEE	2018	DSP	3rd yr-1sem	Digital Signal Processors (DSP) is the use of digital processing such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations and is used everywhere. take real-world signals like voice, audio, video, temperature, pressure, or position that have been digitized and then mathematically manipulate them. A DSP is designed for performing mathematical functions. Digital Signal Processors (DSPs) perform digital signal processing tasks efficiently due to their specialized microprocessor design. Moreover, they play a crucial role in various domains, including telecommunications, audio processing, image and video processing, radar systems, control systems, and more.
11	2	EEE	2018	PS-II	3rd yr-2sem	Transmission line models are essential for analyzing power network.Sag, a result of gravity, impacts line clearance and voltage stability. Power factor measures energy efficiency. Traveling waves signal line faults, aiding fault detection. Corona discharge, often caused by high voltage, impacts transmission line efficiency and can cause interference. These aspects are crucial for power grid operation and maintenance.
12	2	EEE	2018	EMI	3rd yr-2sem	Justification of Electrical and Measuring Instruments depicts the measuring instruments and their classification along with errors.Potentiometers and Instrument Transformers,both are used for measuring voltage and current.Similarly power and energy are measured with wattmeter and energymeter along with their errors.Measurement and classification of R,L,C with the help of bridges.Choice of transducers with their operation and different non-electrical quantities.
13	2	EEE	2018	PSA	3rd yr-2sem	The goals of power system analysis is To model or to execute per phase analysis of power system components. To monitor the voltage at different buses, real and reactive power flow between buses. To plan future expansion of the current system.
14	2	EEE	2018	EECA	3rd yr-2sem	Justification of Electrical Energy Conservation and Auditing can be done through the syllabus framed according to the requirement of the energy management,energy saving and estimation plans of any systems which helps in establishing the new renewable energy plants and smooth running of the organisation without any power failures and to conduct reliable operations economically.
15	2	EEE	2018	LCAR	3rd yr-2sem	Analyse controlled rectifier circuits. Understand the operation of line-commutated rectifiers. Understand the operation of PWM rectifiers operation in rectification and regeneration modes and lagging, leading and unity power factor mode. 6 pulse and multi-pulse configurations.
16	2	EEE	2018	PSOC	4th yr-1sem	The main objective of power system operation and control is to maintain continuous supply of power with an acceptable quality, to all the consumers in the system. The system will be in equilibrium, when there is a balance between the power demand and the power generated.
17	2	EEE	2018	HEV	4th yr-1sem	In this subject battery is one of the pollution free system source to run the vehicles. Battery is playing important role in HYBRID ELCTRIC VEHICLES. Today world wide concentrating reduction of pollution. So it is very useful for pollution point view and student point of view. This subject will give more knowledge about present technology of battries and for students.

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18	2	EEE	2018	FACTS	4th yr-1sem	A flexible alternating current transmission system (FACTS) is a system composed of static equipment used for the alternating current (AC) transmission of electrical energy. It is meant to enhance controllability and increase power transfer capability of the network. It is generally a power electronics-based system. Increase in the stability of transient stability limit. Reduction in power loss. The capacity to transfer power along the alternating current (AC) is enhanced. The reactive power flow causes huge transmission losses, voltage deviation and costs money.
19	2	EEE	2018	PSP	4th yr-1sem	Protective relays and relaying systems detect abnormal conditions like faults in electrical circuits and automatically operate the switchgear to isolate faulty equipment from the system as quick as possible. This limits the damage at the fault location and prevents the effects of the fault spreading into the system. And always helps to make system high availability.
20	2	EEE	2018	HVDCT	4th yr-2sem	This subject is offered at higher UG level to study the various operating as well as configurational aspects of HVDC transmission system. The control strategy for frequency and voltage regulation in DC link is covered in detail for interconnected HVDC system. It also presents the power system stability and fault analysis. Students will be able to enhance their learning domain by distinguishing the requirement of HVDCsystem over HVAC system. They will also learn the components used and role of power electronics involved for regulating the voltage angle and frequency for power flow and interconnection
21	2	EEE	2018	ED	4th yr-2sem	The Electrical Drives require prime movers like Diesel or petrol engines, gas or steam turbines,hydraulic motors or electric motors. These prime movers deliver the required mechanical energy for getting the motion and its control. Drives employing Electric motors as prime movers for motion control & control of DC Motors through Phase Controlled Rectifiers operate in Four Quadrant DC Drives through Dual Converters. & briefly discuss Control of DC Motors by Choppers .The Demonstrate different control techniques of induction motors& synchronous motors are demonstrated .
22	2	EEE	2018	MCT	4th yr-2sem	Modern control theory is a theory based on the concept of state variables and using modern mathematical methods and computers to analyze and synthesize complex control systems and it helps to study nonlinear behaviors .It utilizes the time-domain state space representation, a mathematical model of a physical system as a set of input, output .Modern control systems use advanced technology such as programmable logic controllers (PLCs), Human-Machine Interfaces (HMIs), and sensors to automate and optimize industrial processes. This automation leads to improved efficiency, and used in all scientific researches and robotics ...
23	2	EEE	2018	UEE	4th yr-2sem	Electrical energy is utilized in every walk of life whether it is home, office, industry or farm. It is being used for lighting, heating, cooking, welding, electric traction and so on. In this era of energy crisis it is must that electricity is consumed efficiently. Every electrical engineer therefore should know to operate and maintain main electrical utilities for their efficient operations. The students will be able to make proper selection of equipment according to requirement to ensure economical and efficient use of electricity. An electrical drive is designed to control certain parameters of the motor for controlling the electrical energy into mechanical power in a precise controllable way in electrical traction systems.

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24	2	EEE	2018	HVE	4th yr-2sem	Applied to knowledge in different sectors it deals the varies different materials,numerical methods for fields applications with computation techniques.from this learn the over voltage phenomenon and insulation co ordination and also got the knowledge in testing of materials and electrical apparatus.from this executed the electrical problems in electrical field compuatation techniques,over voltage phenomenon and insulation co ordination and testing of electrical materials and electrical apparatus
25	2	EEE	2018	SGT	3rd yr-2sem	Justification of Smart Grid Technologies can be done through the topics related to the Grid design and dealing with the estimation and operation of the grid in a smart way in the current development in a automation field.It enhances the broa thinking capabilities of power management and outage management system in the current developing scenario which helps to understand the automation filed in a simple manner.

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1.1.2

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R20

Department of Electrical and Electronics Engineering

1.1.2 Percentage of programmes where syllabus revision was carried out during the last five years (20)

Programme Code	Programme name	Year of Introduction	Status of implementation of CBCS / ECS (Yes/No)	Year of implementation of CBCS / ECS	Year of revision (if any)	If revision has been carried out in the syllabus during last 5 years, Percentage of content added or replaced	Justification	Link to the relevant document
2	EEE	2020	BEE	1st yr-1sem	2020	No	No	
2	EEE	2020	ECA	2nd yr-1sem	2020	20%	To improve the analysing skills to solve the AC circuits by applying network theorems.Basic concepts of filters will be studied in semicinductor devices and circuits subject.	
2	EEE	2020	EM-I	2nd yr-1sem	2020			
2	EEE	2020	EMF	2nd yr-1sem	2020	No	No	
2	EEE	2020	EM-II	2nd yr-2sem	2020			
2	EEE	2020	CS	2nd yr-2sem	2020			
2	EEE	2020	PS-I	2nd yr-2sem	2020	25%	Inductance & Capacitance of the transmission line are added to know the calculations of voltage regulation and efficiency system . Single & three phase wire systems and bus bar arrangements are added to know the basic concepts.	
2	EEE	2020	PE	3rd yr-1sem	2020	10%	Basic concept of cycloconveter & series and parallel inverter are used in Power Electronics lab practically.	
2	EEE	2020	EMD	3rd yr-1sem	2020	No	No	
2	EEE	2020	DSP	3rd yr-1sem	2020	No	No	
2	EEE	2020	PS-II	3rd yr-1sem	2020			
2	EEE	2020	EMI	3rd yr-1sem	2020	No	No	
2	EEE	2020	PSP	3rd yr-2sem	2020	40%	To know the basic concepts of circuit breakers used in HVDCT system. Advanced microprocessor based relays are used nowadays so the topics are added.	
2	EEE	2020	PSOC	3rd yr-2sem	2020	No	No	
2	EEE	2020	LCAR	3rd yr-2sem	2020	15%	Syllabus is vast so the working topics are reduced and basic concepts are introduced.	
2	EEE	2020	EECA	3rd yr-2sem	2020	No	No	
2	EEE	2020	HEV	4th yr-1sem	2020	No	No	
2	EEE	2020	HVDCT	4th yr-1sem	2020	No	No	
2	EEE	2020	ED	4th yr-1sem	2020	10%	Basic explanation is given for variable frequency control, Cyclo converter, PWM, VFI, CSI. Closed loop operation of induction motor drives & working operation is removed due to large syllabus.	
2	EEE	2020	MCT	4th yr-2sem	2020	No	No	
2	EEE	2020	UEE	4th yr-2sem	2020	No	No	
2	EEE	2020	SGT	3rd yr-2sem	2020	No	No	

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TKR College of Engineering & Technology
Department of CSE (AI & ML)
I. Minutes of Meeting held at TKRCET

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TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
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CSE (AI&ML)

Board of Studies Meeting held on 15/10/2022 at 10.15AM

Agenda:

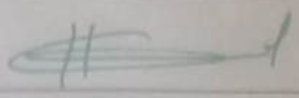
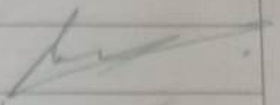
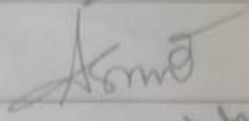
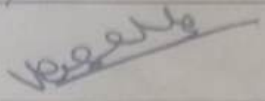
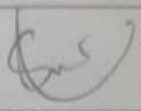
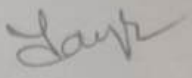
1. Finalization of R22 course structure with classification
2. Evaluation process
3. Discussion on CBT
4. New courses added in the curriculum

Minutes of Meeting

1. Course structure approval for R22 Regulation with following classification: HS with 11 credits. BS with 22 credits. ES with 23 credits, PC with 59 credits , PE with 18 credits, OE with I2 credits, PW with 15 credits
2. Each and every Semester constitutes with 20 credits total of 160 credits.
3. Internal evaluation for 40 Marks External Evaluation for 60 marks
4. No CBT for Internal Examination
5. Skill Development Course is added in V Semester in order to meet the requirement
6. Open electives are introduced in VI, VII and VIII in order to make the student in multi-disciplinary expertise
7. Professional electives which are related to Artificial Intelligence area and the technology related to the industrial needs are introduced in V,VI,VII,VIII of students choice in order to meet the choice based credit system
8. Project is introduced in VII and VIII semesters
9. Mandatory courses are introduced to enhance the skills of the student for societal needs.

Members

S.NO.	MEMBER NAME	SIGNATURE
1	Dr. G. Venkat Rami Reddy Professor of CSE, JNTUH-SIT	G. V. R — dean
2	Prof. R.B.V. Subramanyam Professor of CSE, NIT Warangal	

3	Dr. M. A. Hammeed Professor of CSE, Osmania University -COE	
4	Mr. Roop Kumar Raju, Industry Expert	
5	Dr. D.V. Ravi Shankar, Principal, TKRCET	
6	Dr. A. Suresh Rao Dean Academics and HoD CSE, TKRCET	
7	Dr. V. Krishna Professor of CSE (DS)and HoD, TKRCET	
8	Dr. B. Sunil Srinivas Professor of CSE and HoD, TKRCET	
9	Mrs. C. Jaya Lakshmi Asst. Professor, Subject Expert CSE(AI&ML), TKRCET	

1.1.2 Details of Programmes where syllabus revision was carried out during the year

1.2.2 Details of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

Program	Programme Name	Year of introduction	Status of implemetation of CBCS / Elective Course System	Year of implemetation of CBCS / Elective Course	Year of revision, if any	If revision has been carried out in the syllabus during the year, percentage of	Link to the relevant document
B.Tech -First year course study							
	Mathematics	2002	YES	2016	2022	20%	
	Physics	2002	YES	2016	2022	20%	
	Chemistry	2002	YES	2016	2022	20%	
	Engish	2002	YES	2016	2022	20%	
	MANAGEMENT SCIENCE	2002	YES	2016	2022	20%	

HOD

PROFESSOR & HEAD
HUMANITIES & SCIENCE
TKR COLLEGE OF ENGINEERING & TECHNOLOGY

PRINCIPAL

Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad-97.

Department of CSE(DATA SCIENCE)

BoS Minutes of Meeting

Meeting Date: [23/06/2022]

Meeting Time: [10:00 AM]

Location: [Board Room]

Curriculum Updates and Course Modifications Board of Studies Meeting for R20 to R22 in the year of 2022-23

Program Name:CSE(Data Science)

Internal Subject
Name: Mr. ArokiaMuthu.M
Signature:

ExpertExternal Subjec Expert-I
Name: Prof.R.B.V.Subramanyam
Signature:

External Subject Expert-II
Name:Dr.M.A.Hameed
Signature:

Industry Expert
Name: Mr. Roop Kumar Raju
Signature:

University Nominee (Subject Expert)
Name:Dr.G.Venkata Rami Reddy
Signature:

HoD
Name:Dr.V.Krishna
Signature:

BoS Chairman
Name:Dr.RajeshBanala
Signature:

Agenda:

1. Review of current curriculum:
2. Proposed curriculum updates and course modifications:
3. Justification for changes:
4. Discussion and approval of changes:
5. Timeline for implementation:
6. Any other business:
7. Date and time of the next meeting
8. Meeting Minutes:

Internal Subject
Name: Mr. ArokiaMuthu.M
Signature:

ExpertExternal Subjec Expert-I
Name: Prof.R.B.V.Subramanyam
Signature:

External Subject Expert-II
Name:Dr.M.A.Hameed
Signature:

Industry Expert
Name: Mr. Roop Kumar Raju
Signature:

University Nominee (Subject Expert)
Name:Dr.G.Venkata Rami Reddy
Signature:

HoD
Name:Dr.V.Krishna
Signature:

BoS Chairman
Name:Dr.RajeshBanala
Signature:

Review of Current Curriculum (R20) I Semester

Subject code	Subject Type	Title of the subject	Remarks
CESCP1	ES	C Programming for Problem Solving	
CESCP21	ES	C Programming for Problem Solving Lab	

Review of Current Curriculum (R20) II Semester

Subject code	Subject Type	Title of the subject	Remarks
CESIT1	ES	IT Workshop	

Review of Current Curriculum (R20) III Semester

Subject code	Subject Type	Title of the subject	Remarks
CESOP1	ES	Introduction to Object-Oriented Programming & Data Structures using Java	
CESOP2	ES	Introduction to Object-Oriented Programming & Data Structures using Java Lab	

Internal Subject
Name: Mr. ArokiaMuthu.M
Signature:

ExpertExternal Subjec Expert-I
Name: Prof.R.B.V.Subramanyam
Signature:

External Subject Expert-II
Name:Dr.M.A.Hameed
Signature:

Industry Expert
Name: Mr. Roop Kumar Raju
Signature:

University Nominee (Subject Expert)
Name:Dr.G.Venkata Rami Reddy
Signature:

HoD
Name:Dr.V.Krishna
Signature:

BoS Chairman
Name:Dr.RajeshBanala
Signature:

The board reviewed the existing curriculum for CSE (Data Science)and discussed its strengths and weaknesses.

2. Proposed Curriculum Updates and Course Modifications in R22

Present a summary of proposed changes, including new course offerings, course deletions, or modifications to existing courses.

R22 I Semester

Subject code	Subject Type	Title of the subject	Revisions made to the course contents	Remarks
D1ESCP1	ES	C Programming for Problem Solving	No change in R22	
D1ESCP3	ES	C Programming for Problem Solving Lab	No change in R22	
D1ESITW1	ES	IT Workshop	No change in R22 (This subject, which was previously part of the R20 IInd semester, is now integrated into the Ist semester.)	

Internal Subject
Name: Mr. ArokiaMuthu.M
Signature:

ExpertExternal Subjec Expert-I
Name: Prof.R.B.V.Subramanyam
Signature:

External Subject Expert-II
Name:Dr.M.A.Hameed
Signature:

Industry Expert
Name: Mr. Roop Kumar Raju
Signature:

University Nominee (Subject Expert)
Name:Dr.G.Venkata Rami Reddy
Signature:

HoD
Name:Dr.V.Krishna
Signature:

BoS Chairman
Name:Dr.RajeshBanala
Signature:

R22 II Semester

Subject code	Subject Type	Title of the subject	Revisions made to the course contents	Remarks
D2ESIOJ	ES	Introduction to Object-Oriented Programming & Data Structures using Java	No change in R22 (This subject, which was previously part of the R20 IIIrd semester, is now integrated into the IIst semester.)	
D2ESIOL	ES	Introduction to Object-Oriented Programming & Data Structures using Java Lab	No change in R22	

Internal Subject
Name: Mr. ArokiaMuthu.M
Signature:

ExpertExternal Subjec Expert-I
Name: Prof.R.B.V.Subramanyam
Signature:

External Subject Expert-II
Name:Dr.M.A.Hameed
Signature:

Industry Expert
Name: Mr. Roop Kumar Raju
Signature:

University Nominee (Subject Expert)
Name:Dr.G.Venkata Rami Reddy
Signature:

HoD
Name:Dr.V.Krishna
Signature:

BoS Chairman
Name:Dr.RajeshBanala
Signature: