

# DEPARTMENT OF CIVIL ENGINEERING

8th Board of studies

R23-Regulation

1<sup>st</sup> Meeting-for the approval of

I B.Tech I Year Course Structure and

Syllabus

Held on 23-09-2023

IQAC

NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P.

# -NARASARAOPETA ENGINEERING COLLEGE: AUTONOMOUS: NARASARAOPET DEPARTMENT OF CIVIL ENGINEERING

## BOARD OF STUDIES PANEL

S.No.	Name	Category	Designation	Specialization	Contact No. & Mail
ľ	Dr P Naga Sowjanya	Assoc. Professor & HOD	Chairman	Remote Sensing and GIS	ID 8897170424 civilhod@nrtec.in
2	Dr. B Krishna Rao	Professor, Department of Civil Engineering, University College of Engineering Kakinada, JNTUK.	JNTUK nominee	Structural Engineering	9440147830 krishnaraob102@gma il.com
3	Dr.T.V.S Vara Lakshmi	T.V.S Vara Asst. Professor, HOD Civil Engineering		0863 2346252, 9703504939 varam23@gmail.com	
4	Dr. J.V. Gurumurthy  HOD ,Civil Engineering Department, G Pulla Nominee		Geotechnical Engineering	jvgm62@gmail.com9 440588766	
5	Er.R.Raja Naik,	Executive Engineer, R&B Department , Narasaraopeta	Industrial Member	Structures	mirrahmath@gmail.co m,9490757905
6	Vijaya Bhaskara Reddy Junior Engineer, Garris Engineer(Naval Depot) Military Engineering Services, Visakhapatnar		Alumni Member	Structures	mvb.143@gmail.com 8341096948
7	K.Yamuna	Asst. professor, Department of Civil Engineering, Narasaraopeta Engineering College	Member (Internal Subject Expert)	Structural Engineering	kurapatiyamuna95@g mail.com 6300680652
8	A.Lakshmi Prasanna	Asst. Prof Department of Civil Engineering, Narasaraopeta Engineering College	Member	Structural Engineering	luckyprassi652@gmai l.com 9182574096
9	M N S Samba Siva Rao	Asst. Prof Department of Civil Engineering, Narasaraopeta Engineering College	Member	Hydraulics,Coasta l&Harbour Engineering	mnssr_civil@nrtec.in 9618370067
10	K Jeya Vignesh	Asst. Prof Department of Civil Engineering, Narasaraopeta Engineering College	Member	Construction Engineering &Management	k.jeyavicky@gmail.co m 8344728687

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Date: 23-09-2023

## Agenda of BOS meeting

- To discuss about I year Course Structure and approval of 1st year Civil Engineering subjects under Regulation 23.
- To discuss about Basics of Civil & Mechanics Engineering (Civil Engineering Part).
- To discuss about Engineering Mechanics & Building Practices lab.



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The following members have attended 8th BOS meeting for the approval of R23 1st year Civil Engineering subjects held on 23.09.2023.

## Members Present:

Name	Category	Designation	specialization	Signature
Dr P Naga Sowjanya	Assoc. Professor & HOD	Chairman	Remote Sensing and GIS	los paris
Dr. B Krishna Rao	Professor, Department of Civil Engineering, University College of Engineering Kakinada, JNTUK.	JNTUK nominee	Structural Engineering	35
Dr.T.V.S Vara Lakshmi	Asst. Professor, HOD ,Civil Engineering Department, Acharya Nagarjuna University, Guntur	Member Nominee of CAC	Structural Engineering	To catha
Dr. J.V. Gurumurthry	HOD ,Civil Engineering Department, G Pulla Reddy Engineering College, Kurnool	Member Nominee of CAC	Geotechnical Engineering	Juguelly
Er.R.Raja Naik,	Executive Engineer, R&B Department, Narasaraopeta	Industrial Member	Structures	
/ijaya Bhaskara Reddy	Junior Engineer, Garrison Engineer(Naval Depot), Military Engineering Services, Visakhapatnam	Alumni Member	Structures	m. 498
C.Yamuna	Asst. professor, Department of Civil Engineering, Narasaraopeta Engineering College	Member (Internal Subject Expert)	Structural Engineering	K (Jan)
A.Lakshmi Prasanna	Asst. Prof Department of Civil Engineering, Narasaraopeta Engineering College	Member	Structural Engineering	94
4 N S Samba Siva Rao	Asst. Prof Department of Civil Engineering, Narasaraopeta Engineering College	Member	Hydraulics,Coast al&Harbour Engineering	MAN
. Jeya Vignesh	Asst. Prof Department of Civil Engineering, Narasaraopeta Engineering College	Member	Construction Engineering &Management	Say/



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## Minutes of Meeting

BOS Meeting of the Faculty of Civil Engineering is convened on 23.09,2023 at 10:00 AM in HOD cabin at 1317.

The minutes of the meeting are as following:

- The BOS external members approved for the syllabus of 1<sup>st</sup> year civil engineering subjects of Regulation 23.
- The BOS Panel members suggested to continue same syllabus of BASIC CIVIL AND MECHANICAL ENGINEERING subject.
- The BOS Panel members suggested to continue same syllabus of ENGINEERING MECHANICS & BUILDING PRACTICES LAB.
- BOS suggested to remove Numerical examples on spatial system of forces using vector approach and advised to add method of joints in Analysis of Plane Trusses from UNIT-II in Engineering Mechanics subject.

S.No.	Name of the BOS member	Simut
1	Dr P Naga Sowjanya	Signature
2	Dr. B Krishna Rao	BUS
3	Dr.T,V.S Vara Lakshmi	Vis varadalehm
4	Dr. J.V. Gurumurthry	Jugunding
5	Er.R.Raja Naik,	
6	M. Vijaya Bhaskara Reddy	m. 489
7	K.Yamuna	K. Crow
8	A.Lakshmi Prasanna	an
9	M N S Samba Siva Rao	Ng.
0	K Jeya Vignesh	and the second

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## DEPARTMENT OF CIVIL ENGINEERING R23 COURSE STRUCTURE

## B.Tech. - I Year I Semester

S.No.	Category	Title	L/D	T		
1	BS&H	Communicative English			P	Credits
2	BS&H	2.77.371050412	2	0	0	2
3	BS&H	Engineering Physics	3	0	0	3
		Linear Algebra & Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	
7	BS&H	Engineering Physics Lab	0			1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
,	Engineering Science	Computer Programming Lab	0	0	3	1.5
0	BS&H	Health and wellness, Yoga and sports	-	•	1	0.5
otal			14	00	11	19.5

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## B.Tech. - I Year II Semester

S.No.	Category	Title	L/D	Т		1
1	BS&H	Chemistry			P	Credits
2	BS & H	Differential Equations & Vector Calculus	3	0	0	3
3	Engineering Science	Basic Electrical and Electronics Engineering	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	IT Workshop	0	0	2	1
6	Professional Core	Program core (Branch specific)	3	0	0	3
7	BS&H	Chemistry Lab	0	0	2	1.
8	Engineering Science	Electrical and Electronics Engineering Workshop	0	0	3	1.5
9	Professional Core	Program Core Lab (Branch specific)	0	0	3	1.5
10	BS&H	NSS/NCC/Scouts & Guides/Community Service	•		1	0.5
Total			13	0	15	20.5

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	3	0	0	30	70	100	3
I B.TECH I-SEMESTER CODE:	L	Т	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS	CREDITS

## Course Objectives:

- Get familiarized with the scope and importance of Civil Engineering sub-divisions.
- · Introduce the preliminary concepts of surveying.
- Acquire preliminary knowledge on Transportation and its importance in nation's economy.
- · Get familiarized with the importance of quality, conveyance and storage of water.
- · Introduction to basic civil engineering materials and construction techniques.

Course Outcomes: On completion of the course, the student should be able to:

CO1: Understand various sub-divisions of Civil Engineering and to appreciate their role in ensuring better society.

CO2: Know the concepts of surveying and to understand the measurement of distances, angles and levels through surveying.

CO3: Realize the importance of Transportation in nation's economy and the engineering measures related to Transportation.

CO4: Understand the importance of Water Storage and Conveyance Structures so that the social responsibilities of water conservation will be appreciated.

CO5: Understand the basic characteristics of Civil Engineering Materials and attain knowledge on prefabricated technology.

### UNIT I

Basics of Civil Engineering: Role of Civil Engineers in Society- Various Disciplines of Civil Engineering- Structural Engineering- Geo-technical Engineering- Transportation Engineering - Hydraulics and Water Resources Engineering - Environmental Engineering-Scope of each discipline - Building Construction and Planning- Construction Materials-Cement - Aggregate - Bricks- Cement concrete- Steel. Introduction to Prefabricated construction Techniques.

### UNIT II

Surveying: Objectives of Surveying- Horizontal Measurements- Angular Measurements- Introduction to Bearings Levelling instruments used for levelling -Simple problems on levelling and bearings-Contour mapping.

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I B.TECH I-SEMESTER	L	T	P	INTERNAL MARKS	EXTERNAL MARKS	TOTAL	CREDITS
CODE:	0	0	3			MAKKS	
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## ENGINEERING MECHANICS & BUILDING PRACTICES LAB

(Civil Engineering & allied branches)

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Course Objectives: The students completing the course are expected to

s. 2022

- Verify the Law of Parallelogram of Forces and Lami's theorem.
- Determine the coefficients of friction of Static and Rolling friction and Centre of gravity of different plane Lamina.
- Understand the layout of a building, concepts of Non-Destructive Testing and different Alternative Materials.

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Course Outcomes: On completion of the course, the student should be able to:

shers.

CO1: Evaluate the coefficient of friction between two different surfaces and between the inclined plane and the roller.

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CO2: Verify Law of Parallelogram of forces and Law of Moment using force polygon and bell crank lever.

CO3: Determine the Centre of gravity different configurations.

CO4: Understand the Quality Testing and Assessment Procedures and principles of Non-Destructive Testing.

CO5: Exposure to safety practices in the construction industry.

## Students have to perform any 10 of the following Experiments:

- To study various types of tools used in construction.
- 2. Forces in Pin Jointed Trusses
- Experimental Proof of Lami's Theorem
- 4. Verification of Law of Parallelogram of Forces.
- 5. Determination of Center of Gravity of different shaped Plane Lamina.
- 6. Determination of coefficient of Static and Rolling Friction.
- 7. Verification of Law of Moment using Rotation Disc Apparatus and Bell Crank Lever

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 25-09-2023

 $9^{th}$  Board of studies as well as 1st meeting for the approval R23 Course structure and 1st year syllabus

Date : 25.09.2023

Venue: EEE Seminar Hall (Block-3)

## Agenda

To discuss about the regulation R23 Ist Year B.Tech EEE Course Structure and Syllabus of the following subjects

- 1. Basic Electrical and Electronics Engineering
- 2. Electrical and Electronics Engineering Workshop
- 3. Electrical Circuit Analysis I
- 4. Electrical Circuit Analysis I Lab

(Dr.P.Lakshmanan) Chairman-BoS

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## BASIC ELECTRICAL & ELECTRONICS ENGINEERING

(Common to All branches of Engineering)

### Course Objectives

To expose to the field of electrical & electronics engineering, laws and principles of electrical/ electronic engineering and to acquire fundamental knowledge in the relevant field.

Course Outcomes: After the completion of the course students will be able to

CO1. Describe fundamental laws, operating principles of motors/generators. MC/MI instruments (L2)

CO2. Demonstrate the working of electrical machines, measuring instruments and power generation stations.
(L2)

CO3. Apply mathematical tools and fundamental concepts to derive various equations related to electrical circuits and machines. (L3)

CO4. Calculate electrical load and electricity bill of residential and commercial buildings. (L4)

## PART A: BASIC ELECTRICAL ENGINEERING

## UNIT I DC & AC Circuits

DC Circuits: Electrical circuit elements (R, L and C), Ohm's Law and its limitations, KCL & KVL, series, parallel, series-parallel circuits, Super Position theorem, Simple numerical problems.

AC Circuits: A.C. Fundamentals: Equation of AC Voltage and current, waveform, time period, frequency, amplitude, phase, phase difference, average value, RMS value, form factor, peak factor, Voltage and current relationship with phasor diagrams in R. L. and C circuits, Concept of Impedance, Active power, reactive power and apparent power, Concept of power factor (Simple Numerical problems).

## UNIT II Machines and Measuring Instruments

Machines: Construction, principle and operation of (i) DC Motor, (ii) DC Generator, (iii) Single Phase Transformer, (iv) Three Phase Induction Motor and (v) Alternator, Applications of electrical machines.

Measuring Instruments: Construction and working principle of Permanent Magnet Moving Coil (PMMC), Moving Iron (MI) Instruments and Wheat Stone bridge.

## UNIT III Energy Resources, Electricity Bill & Safety Measures

Energy Resources: Conventional and non-conventional energy resources; Layout and operation of various Power Generation systems: Hydel, Nuclear, Solar & Wind power generation.

Electricity bill: Power rating of household appliances including air conditioners, PCs, Laptops, Printers, etc. Definition of "unit" used for consumption of electrical energy, two-part electricity tariff, calculation of electricity bill for domestic consumers.

Equipment Safety Measures: Working principle of Fuse and Miniature circuit breaker (MCB), merits and demerits. Personal safety measures: Electric Shock, Earthing and its types, Safety Precautions to avoid shock.

#### Textbooks:

- 1. Basic Electrical Engineering, D. C. Kulshreshtha, Tata McGraw Hill, 2019, First Edition
- 2. Power System Engineering, P.V. Gupta, M.L. Soni, U.S. Bhatnagar and A. Chakrabarti, Dhanpat Rai & Co. 2013
- 3. Fundamentals of Electrical Engineering, Rajendra Prasad, PHI publishers, 2014, Third Edition

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#### Reference Books:

- 1. Basic Electrical Engineering, D. P. Kothari and I. J. Nagrath, Mc Graw Hill, 2019, Fourth Edition
- Principles of Power Systems, V.K. Mehtha, S.Chand Technical Publishers, 2020
- Basic Electrical Engineering, T. K. Nagsarkar and M. S. Sukhija, Oxford University Press, 2017
- Basic Electrical and Electronics Engineering, S. K. Bhatacharya, Person Publications, 2018, Second Edition.

#### Web Resources:

- https://nptel.ac.in/courses/108105053
- https://nptel.ac.in/courses/108108076

## PART B: BASIC ELECTRONICS ENGINEERING

### Course Objectives:

To teach the fundamentals of semiconductor devices and its applications, principles of digital electronics.

#### UNIT I SEMICONDUCTOR DEVICES

Introduction - Evolution of electronics - Vacuum tubes to nano electronics - Characteristics of PN Junction Diode — Zener Effect — Zener Diode and its Characteristics. Bipolar Junction Transistor — CB, CE, CC Configurations and Characteristics — Elementary Treatment of Small Signal CE Amplifier.

## UNIT II BASIC ELECTRONIC CIRCUITS AND INSTRUMENTTAION

Rectifiers and power supplies: Block diagram description of a dc power supply, working of a full wave bridge rectifier, capacitor filter (no analysis), working of simple zener voltage regulator. Amplifiers: Block diagram of Public Address system, Circuit diagram and working of common emitter (RC coupled) amplifier with its frequency response. Electronic Instrumentation: Block diagram of an electronic instrumentation system.

### UNIT III DIGITAL ELECTRONICS

Overview of Number Systems, Logic gates including Universal Gates, BCD codes, Excess-3 code, Gray code, Hamming code. Boolean Algebra, Basic Theorems and properties of Boolean Algebra, Truth Tables and Functionality of Logic Gates — NOT, OR, AND, NOR, NAND, XOR and XNOR, Simple combinational circuits—Half and Full Adders. Introduction to sequential circuits, Flip flops(S-R, J-K, D and T Flip flops), Registers(4-bit Shift Register - serial input and output) and counters (Ripple Counters, Binary Ripple Counter, Ring Counter) (Elementary Treatment only)

#### Textbooks:

- 1. R. L. Boylestad & Louis Nashlesky. Electronic Devices & Circuit Theory, Pearson Education, 2021.
- R. P. Jain, Modern Digital Electronics, 4th Edition, Tata Mc Graw Hill, 2009

#### Reference Books:

- 1. R. S. Sedha, A Textbook of Electronic Devices and Circuits, S. Chand & Co, 2010.
- Santiram Kal, Basic Electronics- Devices, Circuits and IT Fundamentals, Prentice Hall, India, 2002.
- 3. R. T. Paynter, Introductory Electronic Devices & Circuits Conventional Flow Version, Pearson Education, 2009.

End examination pattern:

i Question paper shall be in two parts viz., Part A and Part B with equal weightage of 35 marks each, ii In each part, question 1 shall contain 5 compulsory short answer questions for a total of 5 marks such that each question carries 1 mark.

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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

iii In each part, questions from 2 to 4, there shall be either/or type questions of 10 marks each. Student shall answer any one of them.

iv The questions from 2 to 4 shall be set by covering one unit of the syllabus for each question.

Dr.K. RAVINDRA

Dr.C.CHENGAIAH

Dr.LSATISH KUMAR

Dr.S.SELVA KUMAR

KUMAR

Dr.SK.MD.SHAREEF

P.D.V.S.K.KISHORE

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## **ELECTRICAL & ELECTRONICS ENGINEERING WORKSHOP**

(Common to All branches of Engineering)

### Course Objectives:

To impart knowledge on the fundamental laws & theorems of electrical circuits, functions of electrical machines and energy calculations.

#### Course Outcomes:

After competition of this course, the student will be able to

CO1. Measure voltage, current and power in an electrical circuit. (L3)

CO2. Measure of Resistance using Wheat stone bridge (L4)

CO3. Discover critical field resistance and critical speed of DC shunt generators. (L4)

CO4. Investigate the effect of reactive power and power factor in electrical loads. (L5)

#### Activities:

- Familiarization of commonly used Electrical & Electronic Workshop Tools: Bread board, Solder, cables, relays, switches, connectors, fuses, Cutter, plier, screwdriver set, wire stripper, flux, knife/blade, soldering iron, de-soldering pump etc.
  - Provide some exercises so that hardware tools and instruments are learned to be used by the students.
- 2. Familiarization of Measuring Instruments like Voltmeters, Ammeters, multimeter, LCR-Q meter, Power Supplies, CRO, DSO, Function Generator, Frequency counter.
  - · Provide some exercises so that measuring instruments are learned to be used by the students.

## 3. Components:

- Familiarization/Identification of components (Resistors, Capacitors, Inductors, Diodes, transistors, IC's etc.) Functionality, type, size, colour coding package, symbol, cost etc.
- Testing of components like Resistor, Capacitor, Diode, Transistor, ICs etc. Compare values of components like resistors, inductors, capacitors etc with the measured values by using instruments

#### PART A: ELECTRICAL ENGINEERING LAB

#### List of experiments:

- 1. Verification of KCL and KVL
- 2. Verification of Superposition theorem
- 3. Measurement of Resistance using Wheat stone bridge
- 4. Magnetization Characteristics of DC shunt Generator
- 5. Measurement of Power and Power factor using Single-phase wattmeter
- 6. Measurement of Earth Resistance using Megger
- 7. Calculation of Electrical Energy for Domestic Premises

#### Reference Books:

- 1. Basic Electrical Engineering, D. C. Kulshreshtha, Tata McGraw Hill, 2019, First Edition
- Power System Engineering, P.V. Gupta, M.L. Soni, U.S. Bhatnagar and A. Chakrabarti, Dhanpat Rai & Co. 2013

 Fundamentals of Electrical Engineering, Rajendra Prasad, PHI publishers, 2014, Third Edition Note: Minimum Six Experiments to be performed.

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## PART B: ELECTRONICS ENGINEERING LAB

## Course Objectives:

· To impart knowledge on the principles of digital electronics and fundamentals of electron devices & its applications.

Course Outcomes: At the end of the course, the student will be able to

CO1: Identify & testing of various electronic components.

CO2: Understand the usage of electronic measuring instruments.

CO3: Plot and discuss the characteristics of various electron devices.

CO4: Explain the operation of a digital circuit.

### List of Experiments:

- 1. Plot V-I characteristics of PN Junction diode A) Forward bias B) Reverse bias.
- Plot V I characteristics of Zener Diode and its application as voltage Regulator.
- 3. Implementation of half wave and full wave rectifiers
- 4. Plot Input & Output characteristics of BJT in CE and CB configurations
- 5. Frequency response of CE amplifier.
- Simulation of RC coupled amplifier with the design supplied
- 7. Verification of Truth Table of AND, OR, NOT, NAND, NOR, Ex-OR, Ex-NOR gates using ICs.
- 8. Verification of Truth Tables of S-R, J-K& D flip flops using respective ICs.

Tools / Equipment Required: DC Power supplies, Multi meters, DC Ammeters, DC Voltmeters, AC Voltmeters, CROs, all the required active devices.

#### References:

- 1. R. L. Boylestad & Louis Nashlesky, Electronic Devices & Circuit Theory, Pearson Education, 2021.
- 2. R. P. Jain, Modern Digital Electronics, 4th Edition, Tata Mc Graw Hill, 2009
- 3. R. T. Paynter, Introductory Electronic Devices & Circuits Conventional Flow Version, Pearson Education, 2009.

Note: Minimum Six Experiments to be performed. All the experiments shall be implemented using both Hardware and Software.

Dr.K. RAVINDRA

Dr.C.CHENGAIAH

Dr.I.SATISH KUMAR

Dr.S.SELVA KUMAR

KUMAR

Dr.SK.MD.SHARLLE

M.CHANDRA SEKHAR

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## ELECTRICAL CIRCUIT ANALYSIS -I

(EEE & allied branches)

## Course Objectives:

To develop an understanding of the fundamental laws, elements of electrical circuits and to apply circuit analysis to DC and AC circuits.

#### Course Outcomes:

CO1: Remembering the basic electrical elements and different fundamental laws.

CO2: Understand the network reduction techniques, transformations, concept of self-inductance and mutual inductance, phasor diagrams, resonance and network theorems.

CO3: Apply the concepts to obtain various mathematical and graphical representations.

CO4: Analyse nodal and mesh networks, series and parallel circuits, steady state response, different circuit topologies (with R, L and C components).

CO5: Evaluation of Network theorems, electrical, magnetic and single-phase circuits.

## UNIT I INTRODUCTION TO ELECTRICAL CIRCUITS

Basic Concepts of passive elements of R, L, C and their V-I relations, Sources (dependent and independent), Kirchoff's laws, Network reduction techniques (series, parallel, series - parallel, star-to-delta and delta-to-star transformation), source transformation technique, nodal analysis and mesh analysis to DC networks with dependent and independent voltage and current sources, node and mesh analysis.

### UNIT II SINGLE PHASE CIRCUITS

Characteristics of periodic functions, Average value, R.M.S. value, form factor, representation of a sine function, concept of phasor, phasor diagrams, node and mesh analysis. Steady state analysis of R, L and C circuits to sinusoidal excitations-response of pure resistance, inductance, capacitance, series RL circuit, series RC circuit, series RLC circuit, parallel RL circuit, parallel RC circuit.

#### UNIT III MAGNETIC CIRCUITS

Basic definition of MMF, flux and reluctance, analogy between electrical and magnetic circuits, Faraday's laws of electromagnetic induction – concept of self and mutual inductance, Dot convention – coefficient of coupling and composite magnetic circuit, analysis of series and parallel magnetic circuits.

## UNIT IV RESONANCE AND LOCUS DIAGRAMS

Series Resonance: Characteristics of a series resonant circuit, Q-factor, selectivity and bandwidth, expression for half power frequencies; Parallel resonance: Q-factor, selectivity and bandwidth; Locus diagram: RL, RC, RLC with R, L and C variables.

## UNIT V NETWORK THEOREMS (DC & AC EXCITATIONS)

Superposition theorem, Thevenin's theorem, Norton's theorem, Maximum Power Transfer theorem, Reciprocity theorem, Millman's theorem and compensation theorem

### Textbooks:

- Engineering Circuits Analysis, Jack Kemmerly, William Hayt and Steven Durbin, Tata Mc Graw Hill Education, 2005, sixth edition.
- 2. Network Analysis, M. E. Van Valkenburg, Pearson Education, 2019, Revised Third Edition

#### Reference Books:

 Fundamentals of Electrical Circuits. Charles K. Alexander and Mathew N.O. Sadiku, Mc Graw Hill Education (India), 2013, Fifth Edition

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- 2. Electric Circuits (Schaum's outline Series), Mahmood Nahvi, Joseph Edminister, and K. Rao, Mc Graw Hill Education, 2017, Fifth Edition,
- 3. Electric Circuits, David A. Bell, Oxford University Press, 2009, Seventh Edition.
- 4. Introductory Circuit Analysis, Robert L Boylestad, Pearson Publications, 2023, Fourteenth Edition.
- 5. Circuit Theory: Analysis and Synthesis, A. Chakrabarti, Dhanpat Rai & Co., 2018, Seventh Revised Edition.

### Web Resources:

- https://onlinecourses.nptel.ac.in/noc23\_ee81/preview
- https://nptel.ac.in/courses/108104139
- 3. https://nptel.ac.in/courses/108106172
- 4. https://nptel.ac.in/courses/117106108

Dr.K. RAVINDRA

Dr.C.CHENGAIAH

Dr.I.SATISH KUMAR

Dr.S.SELVA KUMAR

Dr.SK.MD.SHAREEF

P.D.V.S.K.KISHORE

G.NAGARAJLI

SEKHAR

WARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 601 Guntur (Dist.), A.P.

## ELECTRICAL CIRCUITS LAB

(EEE & allied branches)

Course Objectives:

To impart hands on experience in verification of circuit laws and theorems, measurement of circuit parameters, study of circuit characteristics. It also gives practical exposure to the usage of different circuits with different conditions.

### Course Outcomes:

CO1: Understand the concepts of network theorems, node and mesh networks, series and parallel resonance and Locus diagrams.

CO2: Apply various theorems to compare practical results obtained with theoretical calculations.

CO3: Determine self, mutual inductances and coefficient of coupling values, parameters of choke coil.

CO4: Analyse different circuit characteristics with the help of fundamental laws and various

CO5: Create locus diagrams of RL. RC series circuits and examine series and parallel resonance.

### List of Experiments:

- 1. Verification of Kirchhoff's circuit laws.
- 2. Verification of node and mesh analysis.
- 3. Verification of network reduction techniques.
- 4. Determination of cold and hot resistance of an electric lamp
- 5. Determination of Parameters of a choke coil.
- 6. Determination of self, mutual inductances, and coefficient of coupling
- 7. Series and parallel resonance
- 8. Locus diagrams of R-L (L Variable) and R-C (C Variable) series circuits
- 9. Verification of Superposition theorem
- 10. Verification of Thevenin's and Norton's Theorems
- 11. Verification of Maximum power transfer theorem
- 12. Verification of Compensation theorem
- 13. Verification of Reciprocity and Millman's Theorems

#### Reference Books:

- 1. Engineering Circuits Analysis, Jack Kemmerly, William Hayt and Steven Durbin, Tata Mc Graw Hill Education, 2005, sixth edition.
- 2. Network Analysis, M. E. Van Valkenburg, Pearson Education, 2019, Revised Third Edition

Dr.K. RAVINDRA

Dr.C.CHENGAIAH

Dr.I.SATISH

KUMAR

Dr.S.SELVA KUMAR

Mr.YELLANKI.VIJAYA

Dr.SK.MD.SHAREEF

KISHORE

GARAJU

SEKHAR

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## Course Structure and Syllabus

(R23 Regulations)

## **Electrical and Electronics Engineering**

B.Tech – I Year (Applicable for the Batches admitted from 2023-24)





Kotappakonda Road, Yellamanda (Post), Narasaraopet – 522601, Guntur District, AP
Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada, Code: 47,
Accredited by NBA and NAAC, RTA Approved Pollution test Centre, ISO 9001: 2015 Certified Institution
Phone: 08647-239905

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Page 1

## NARASARAOPETA ENGINEERING COLLEGE:: NARASARAOPET (AUTONOMOUS)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING R23 COURSE STRUCTURE

## I B. Tech. - I SEMESTER

S. No	. Subject	Cat. Code	L	T	P	Credits
1	Engineering Graphics	ESC	1	0	4	3
2	Engineering Physics	BS&H	3	0	0	3
3	Linear Algebra& Calculus	BS&H	3.	0	0	3
4	Basic Electrical & Electronics Engg	ESC	3	0	0	3
5	Introduction to Programming	ESC	3	0	0	3
6	IT Workshop	ESC	0	0	2	1.5
7	Engineering Physics Lab	BS&H	0	0	2	1.5
8	EEE Workshop	ESC	0	0	3	1.5
9	Computer Programming lab	ESC	0	0	3	1.5
10	NSS/NCC/SCOUTS & GUIDES/CS	BS&H	0	131	I	0.5
	Total		13	0	15	20.5

Dr.K. RAVINDRA

Dr.C.CHENGAIAH

Dr.I.SATISH KUMAR Dr.S.SELVA KUMAR

Mr.YELLANKI, VIJAYA Dr.SK.MD.SHAREEF KUMAR

P.D.V.S.K.KISHORE

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Page 2



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## I B. Tech. - II SEMESTER

S. No	. Subject	Cat. Code	L	Т	P	Credits
1	Communicative English	BS&H	2	0	0	2
2	Engineering Chemistry	BS&H	3	0	Ö	3
3	Differential Equations & Vector Calculus	BS&H	3	0	0	3
4	Basic Civil & Mechanical Engineering	ESC	3	0	Ö	3
5	Electrical Circuit Analysis – I	PC	3	0	0	3
6	Engineering Workshop	ESC	0	0	3	1.5
7	Chemistry Lab	BS&H	0	0	2	1
8	Communicative English Lab	BS&H	0	0	2	1
9	Electrical Circuit Analysis – I Lab	PC	0	0	3	1.5
10	Health and wellness, Yoga and Sports	BS&H	-	8	1	0.5
	Total		14	0	11	19.5

Dr.K. RAVINDRA

Dr.C.CHENGAIAH

Dr.J.SATISH KUMAR Dr.S.SELVA KUMAR

KUMAR

Mr.YELLANKI, VIJAYA Dr.SK.MD.SHAREEF

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 681



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

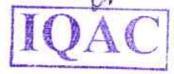
Date: 25-09-2023

Minutes of the 9<sup>th</sup> Board of studies as well as 1<sup>st</sup> meeting for the approval R23 Course structure and 1<sup>st</sup> year syllabus held on 25<sup>th</sup> September, 2023 in EEE Seminar Hall at 3 p.m.

Dr.P.Lakshmanan, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the 9<sup>th</sup> Board of Studies meeting in the department of Electrical and Electronics Engineering. The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

## MEMBERS PRESENT

	Dr. P.Lakshmanan,		
i	Professor & Head, Dept.of EEE  Narasaraopeta Engineering College, Narasaraopet, Guntur(Dt).	Chairman, BOS	A
2	Dr.K. Ravindra Professor, Dept. of EEE University College of Engineering, JNTUK, Kakinada	JNTUK University Nominee	
3	Dr.Ch.Chengaiah Professor, Dept. of EEE S V University, Tirupathi	Subject Expert (Academic Council Nominee)	
4	Dr.I.Satish Kumar Asst. Professor, Dept. of EEE National Institute of Technology, Warangal	Subject Expert (Academic Council Nominee)	رايو
5	Mr.S.Selvakumar Power System Engineer, ABB Global Industries Ltd Chennai	Nominee from Industry	5 50/Va
6	Mr.YELLANKI.VIJAYA KUMAR Senior Executive (Specialist Engineer) Siemens Gamesa Renewable Power Pvt Ltd, Bengaluru, Karnataka	Nominee from Alumni	Y. wijay Kumur



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7	Dr. Sk.Md. Shareef,  Assoc.Professor, Dept. of EEE, Narasaraopeta Engineering College, Narasaraopet, Guntur(Dt).	Member (Internal Subject Expert)	B
8	Mr. P.D.V.S.K. Kishore, Assoc.Professor, Dept. of EEE, Narasaraopeta Engineering College, Narasaraopet, Guntur(Dt).	Member (Internal Subject Expert)	100/
9	Mr.G.Nagaraju, Assoc.Professor, Dept. of EEE, Narasaraopeta Engineering College, Narasaraopet, Guntur(Dt).	Member (Internal Subject Expert)	6ML
10	Mr. M.Chandra Sekhar, Assoc.Professor, Dept. of EEE, Narasaraopeta Engineering College, Narasaraopet, Guntur(Dt).	Member (Internal Subject Expert)	Chair

As per the agenda the following points were discussed and made resolutions

Discussed on R23 - Course Structure & Syllabus of I B.Tech. Electrical and

Electronics Engineering

After detailed discussions, the Board expressed their suggestions and views regarding R23 Course Structure & Syllabus for 1 B.Tech. Electrical and Electronics Engineering. The following suggestions/amendments/ recommendations are given by the members of the board.

- I B.Tech I Semester proposed course Introduction to Programming Theory & Lab
  to be modified as specific name like Problem Solving using C & Problem Solving
  using C Lab.
- I B.Tech I Semester proposed course Basic Electrical and Electronics Engineering syllabus to be modified by specifically mentioning two types of flip-flops, registers and counters.
- I B.Tech I Semester proposed course Basic Electrical and Electronics Engineering Course syllabus is suitable for other than EEE Branches. In place of BEEE you can introduce any programming subject related to EEE Branch
- I B.Tech II Semester proposed course Electrical Circuit Analysis-I syllabus to be modified as UNIT-2: Single Phase Circuits and UNIT-3: Magnetic Circuits.

Meeting concluded with thanks to the Chair

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(Dr. P. LAKSHMANAN)

Chairman

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# DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF R23 -1st BOARD OF STUDIES (BOS) MEETING ON 20-09-2023

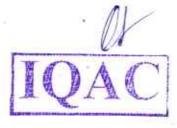
Venue: Principal's chamber, Narasaraopeta Engineering College (Autonomous)

## **AGENDA**

- Welcome by the Chairman, BoS
- 2. Discussion on Course structure of I B.Tech R23 Regulations
- 3. Discussion on Syllabus of I Year subjects 'Engineering Graphics', Engineering Mechanics, Basic of Civil & Mechanical Engineering.
- 4. Discussion on Syllabus of I Year Labs 'Engineering Workshop Lab', Engineering
- 5. Any suggestions by members.
- 6. Vote of thanks.

All the external and internal members are present for this meeting and list is as below.

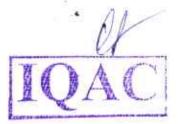
S.No.	Name	Category & Designation	E-Mail id & Mobile No	Signature
1.	Dr. B. Venkata Siva	Professor & HoD, Chairman BoS	Mobile No: 9692464540 E-Mail: mechhod@nrtec.in	De-
2. ·	Dr.M.Sreenivasa Kumar	Professor & Principal BOS Member-Internal Subject Expert	Makilan	May
3.	Dr.D.Suneel	Professor & Vice Principal BOS Member-Internal Subject Expert	Mobile No: 9441895535	(Mad
4.	Dr.D.Jagadish	Expert	Mobile No: 9885419504 E-Mail: djagadish.009@gmail.co	ful
5.   1	Dr.P.Suresh Babu	ROS Mamb	Mobile No: 8500857969 EMail:sureshbabudevi.p	Cu



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-		Expert	@amail	
6	5. Dr.M.Venkanna E	Associate Professor BOS Member-Internal Su Expert	@gmail.com Mobile No.: 998580890 EMail:yenkannababu.mobilect	8
7	Dr.A.Gopala Krishna	Professor BOS Member- JNTUK Nominee, 157 Director (R&D), Professor In Charge of Design InnovationCentre, JNTUK-Kakinada	Mobile No: 8008652555 E-Mail:  dr.a.gopalakrishna@gma	1
8.	Dr.Y.Ravi Kumar	Professor BOS Member – External Subject Expert Dept. of Mechanical Engineering National Institute of Technology Warangal (NITW), Warangal-506 004, Telangana State, INDIA.	Mobile No: 9440868867 E-Mail: raviykumar@yahoo.com yrk@nitw.ac.in	72:b
9.	Dr.P.S.Rama Sreekanth	Professor & Dean BOS Member – External Subject ExpertDepartment of Mechanical EngineeringVIT-AP University, Amaravati	Mobile No: 07854075580 E-Mail: happyshrikanth@gmail.c	Sidol
0.	A. Ravishankar	BOS-Industry Member GM(M), Sinter Plant Dept, VSP, RINL. Hon'y Secretary, IIW Vizag Branch Visakhapatnam.Ph: 9866747971 Email: alikanars@gmail.com	Mobile No: 9866747971 E-Mail: alikanars@gmail.com alikanars@vizagsteel.co m	A. Panin
	Y.Bharadwaj	BOS-Alumni Member Manager, Quality Control & Metrology, Vizag Production Centre L&T Defence IC, Visakhapatnam.	Mobile No: 9492079960 E-Mail: bsy@larsentoubro.com	Done of hery



NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 601 Guntur (Dist.), A.P. The meeting started with opening remarks by Chairman, BOS-Mech. Dr. B.Venkata Siva and Principal Dr.M.Sreenivasa Kumar.

## The following modifications are suggested by members of BOS:

- > In the course 'Engineering Graphics' in Unit-III the topic 'Axis Parallel to the both the reference planes' to be included.
- In the Unit-IV of 'sections of solids' perpendicular and inclined section planes, sectional views and true shape of section to be included.
- In the course 'Engineering Mechanics' in Unit-I 'spatial system of forces using vector approach' to be included, and in the Unit-V the topic 'Kinematics' to be added. Topics of 'rectilinear and curvilinear motion of a particle' to be included.
- ➤ In the course 'Engineering Workshop' a separate experiment 'Demonstration and Basic Repair Works of Two Wheeler Vehicle' to be added.
- > In the section of Sheet metal- 'Conical Funnels and Brazing' experiments to be included.
- In the course 'Engineering Mechanics Lab.' the members suggested no changes in the syllabus.

With the above suggestions all the members of BOS approved Syllabus of 1st year courses of R23.

Chairman-BOS concluded meeting with vote of thanks to all the members.

Chairman, BOS

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# (AUTONOMOUS) DEPARTMENT OF MECHANICAL ENGINEERING

20th September, 2023

# R23-1st BOARD OF STUDIES (BOS) MEETING ON 20-09-2023

## **AGENDA**

- 1. Welcome by the Chairman, BoS
- 2. Discussion on Course structure of I B.Tech R23 Regulations
- Discussion on Syllabus of I Year subjects 'Engineering Graphics', Engineering Mechanics, Basics of Civil & Mechanical Engineering.
- Discussion on Syllabus of I Year Labs 'Engineering Workshop Lab', Engineering Mechanics Lab.
- 5. Any suggestions by members.

6. Vote of thanks.

Chairman, BOS (Dr.B.Venkata Siva)

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# DEPARTMENT OF MECHANICAL ENGINEERING

20th September, 2023

# Members of Board of Studies (BOS) of Mechanical Engineering

S.N	Name	Category & Designation	E-Mail id & Mobile No	
I.	Dr. B. Venkata Siva	Professor & HoD, Chairman BoS	Mobile No: 9692464540 E-Mail: mechhod@nrtec.in	
2.	Dr.M.Sreenivasa Kumar	Professor & Principal BOS Member-Internal Subject Expert	Mobile No. 0440757000	
3.	Dr.D.Suneel	Professor & Vice Principal BOS Member-Internal Subject Expert	Mobile No: 9441895535 E-Mail: viceprincipal@nrtec.in	
4.	Dr.D.Jagadish	Professor BOS Member-Internal Subject Expert	Mobile No: 9885419504 E-Mail: djagadish.009@gmail.com	
5.	Dr.P.Suresh Babu	Professor  BOS Member-Internal Subject Expert	Mobile No: 8500857969  E-Mail: sureshbabudevi.p@gmail.com	
6.	Dr.M.Venkanna Babu  Associate Professor  BOS Member-Internal Subject Expert		Mobile No.: 9985808908 E-Mail: <u>venkannababu.mendi@gmail.com</u>	
7.	Dr.A.Gopala Krishna	Professor BOS Member-JNTUK Nominee, Director (R&D), Professor In Charge of Design InnovationCentre, JNTUK-Kakinada	Mobile No: 8008652555 E-Mail: dr.a.gopalakrishna@gmail.com	

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## DEPARTMENT OF MECHANICAL ENGINEERING

8.	Dr.Y.Ravi Kumar	Professor BOS Member –External Subject ExpertDept. of Mechanical Engineering National Institute of Technology Warangal(NITW), Warangal-506 004, Telangana State, INDIA.	Mobile No: 9440868867 E-Mail: raviykumar@yahoo.com yrk@nitw.ac.in	
9.	Dr.P.S.Rama Sreekanth	Professor & Dean  BOS Member –External Subject ExpertDepartment of Mechanical Engineering VIT-AP University, Amaravati	Mobile No: 07854075580 E-Mail: happyshrikanth@gmail.com	
10.	A. Ravishankar	BOS-Industry Member GM(M), Sinter Plant Dept, VSP, RINL. Hon'y Secretary, IIW Vizag Branch Visakhapatnam.Ph: 9866747971 Email: alikanars@gmail.com	Mobile No: 9866747971 E-Mail: alikanars@gmail.com alikanars@vizagsteel.com	
1.	Y.Bharadwaj	BOS-Alumni Member Manager, Quality Control & Metrology, Vizag Production Centre L&T Defence IC, Visakhapatnam.	Mobile No: 9492079960 E-Mail: bsy@larsentoubro.com	



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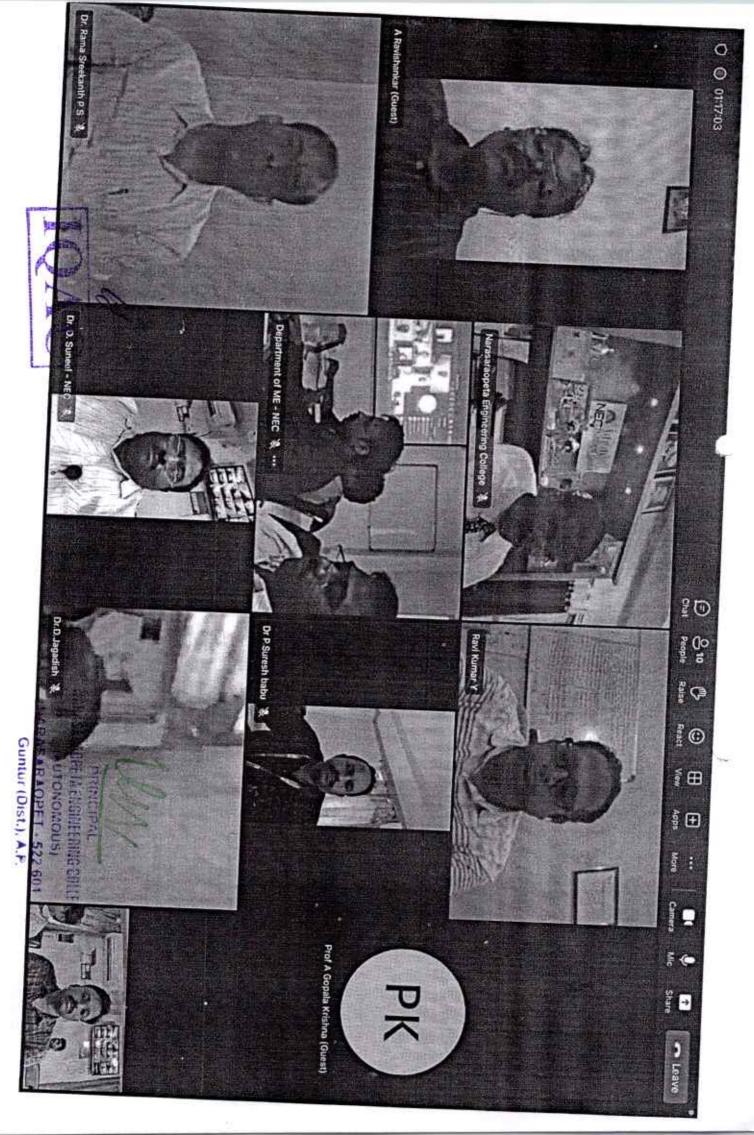
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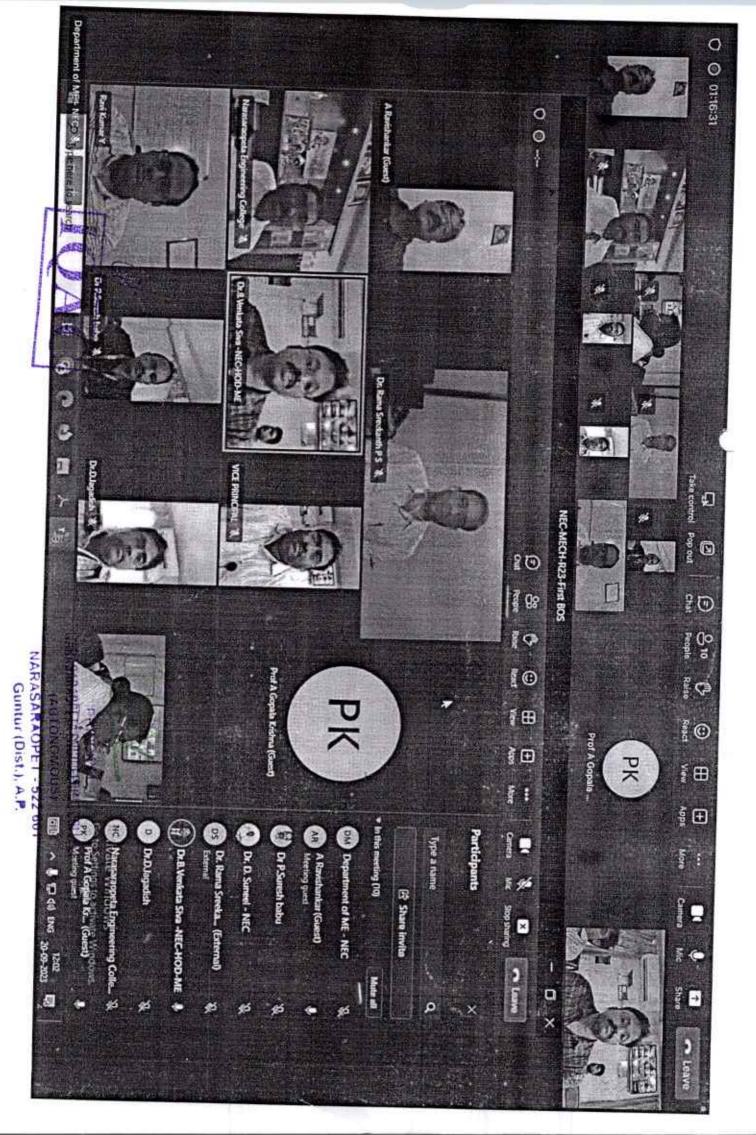
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## DEPARTMENT OF

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

8<sup>th</sup> Board of Studies Meeting (1<sup>st</sup> BoS Meeting of R23) B.Tech., ECE R23 Course Structure



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

23rd September, 2023

## 8th BOARD OF STUDIES (BOS) MEETING ON 23-09-2023

## AGENDA

- 1. Welcome by the Chairman
- Discussion on B.Tech. (Electronics and Communication Engineering) R23-Course Structure
- 3. Discussion on R23 Syllabus of I B.Tech. Electronics and Communication Engineering
- 4. Discussion on R23 M.Tech, VLSI and Embedded Systems (VLSI&ES) course structure and syllabus
- General suggestions by members
- 6. Any other information with the permission of the Chairman
- Vote of thanks

V. Vankata Re Chairman, BOS

(Dr. V. Venkata Rao)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

23rd July, 2023

## Board of Studies (BOS) of Electronics and Communication Engineering

ATTENDANCE SHEET

	T	-			
S.No.	Name	Designation	Category	Contact information	Signature
1	Dr. V. Venkata Rao	Professor & Head	Chairman	Mobile: 9441127458 E-Mail: ecehod@nrtec.ac.in	v. Venkote Rox
2	Dr. B.T. Krishna	Professor	JNTUK University Nominee	Mobile No.: 9848992922 E-Mail: tkbattula@jntucek.ac.in	B.T. Krishny
3	Dr. K. Venkata Ramanaiah	Professor	Subject Expert	Mobile No.: 9849245750  E-Mail: ramanaiahkota@gmail.com	Docaseil
4	Dr. K. Naga Srinivasa Rao Batta	Assistant Professor	Subject Expert	Mobile: 9800296596 E-Mail: srinu.bkn@nitw.ac.in	BKN. Scinn
5	Mr. T. Seetha Ram Kumar	Sub Divisional Engineer	Nominee from Industry	Mobile: 9490107111 E-Mail: rahulanish2007@gmail.com	- INPO
6	Dr. V. Anil Kumar	Associate Professor	Nominee from Alumni	Mobile: 85007 27346 E-Mail: anil.vuppala@iiit.ac.in	V And Kermer
7	Dr. K. Raju	Professor	Member (Internal Subject Expert)	Mobile: 9493451237 E-Mail: raju.kolluri@gmail.com	8
8	Dr. J. Brahmaiah Naik	Professor	Member (Internal Subject Expert)	Mobile: 9948927079 E-Mail: brahmaiahnaik@gmail.com	19.18b

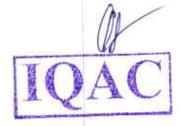


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9	Dr. A.V. Nageswara Rao	Associate Professor	Member (Internal Subject Expert)	Mobile: 9440664462 E-Mail: avnr424@gmail.com	H
10	Dr. Sk. Bajidvali	Associate Professor	Member (Internal Subject Expert)	Mobile: 8639294551 E-Mail: bajid.vali@gmail.com	5. Riplind.
11	Dr. B. Suneetha	Assistant Professor	Member (Internal Subject Expert)	Mobile: 9247513429 E-Mail: suneetha.bobbillapati@gmail.com	B dra
12	Dr. Y. Jaipal Redddy	Assistant Professor	Member (Internal Subject Expert)	Mobile: 9959965468 E-Mail: y.jaipalreddy@gmail.com	Jay Pay.
13	Dr. Sk. Ebraheem Khaleelulla	Assistant Professor	Member (Internal Subject Expert)	Mobile: 6303666759 E-Mail: ebraheemphd@gmail.com	(Har)
14	Dr. K. Srinivasa Rao	Assistant Professor	Member (Internal Subject Expert)	Mobile: 8107881721 E-Mail: ksrinivasarao59@gmail.com	
15	Mr. P.S.S. Chakravarthy	Professor	Member (Internal Subject Expert)	Mobile: 9440943215 E-Mail: chakri.pss@gmail.com	B

Chairman, BOS (Dr. V. Venkata Rao)



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

23rd September, 2023

# Minutes of the 8th Board of Studies (BoS) Meeting for R23 I B.Tech. Course Structure & Syllabus and M.Tech. (VLAI & ES) Course Structure & Syllabus held on 23rd September, 2023 at 10:00 AM

Dr. V. Venkata Rao, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the eighth Board of Studies meeting in the department of Electronics and Communication Engineering. The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

#### MEMBERS PRESENT

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1	Dr. V. Venkata Rao Professor and Head Department of ECE Narasaraopeta Engineering College Narasaraopet	Chairman, BOS
2	Dr. B.T. Krishna Professor, Department of ECE, UCEK, JNTUK, Kakinada	JNTUK University Nominee
3	Dr. K. Venkata Ramanaiah, Professor, Department of ECE University College of Engineering Yogi Vemana University Prodattur. Kadapa Dist.	Subject Expert
4	Dr. K. Naga Srinivasa Rao Batta, Assistant Professor Department of ECE NIT, Warangal	Subject Expert
5	Mr. T. Seetha Ram Kumar Sub Divisional Engineer, BSNL, Guntur	Nominee from Industry
6	Dr. V. Anil Kumar Associate Professor IIITH, Hyderabad	Nominee from Alumni
7	Dr. K. Raju Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)

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8	Dr. J. Brahmaiah Naik Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
9	Dr. A.V. Nageswara Rao Associate Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
10	Dr. Sk. Bajidvali Assistant Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
11	Dr. B. Suneetha Assistant Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
12	Dr. Y. Jaipal Redddy Assistant Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
13	Dr. Sk. Ebraheem Khaleelulla Assistant Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
14	Dr. K. Srinivasa Rao Assistant Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)
15	Mr. P. S. S. Chakravarthy Professor Department of ECE Narasaraopeta Engineering College Narasaraopet	Member (Internal Subject Expert)

### ITEM No. 1

Discussion on R23 - Course Structure & Syllabus of I B.Tech. Electronics and Communication Engineering.

After detailed discussions, the Board expressed their suggestions and views regarding R23 Course Structure & Syllabus for I B.Tech. Electronics and Communication Engineering. The following suggestions/amendments/recommendations are given by the members of the board.

In I B.Tech., II Semester, two experiments beyond curriculum need to be added in Network Analysis & Simulation Lab.



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### ITEM No. 2

### Discussion on R23-Course Structure & Syllabus for M.Tech. VLSI & Embedded Systems specialization.

After detailed discussions, the Board expressed their suggestions and views regarding R23-Course Structure & Syllabus for M.Tech. VLSI & Embedded Systems specialization. The following suggestions/amendments/recommendations is given by the members of the board.

 In the I & II Semester, one more lab need to be added with 1.5 credits to each lab.

Meeting concluded with thanks to the Chair.

(Dr. V. VENKATA RAO)

Chairman BOS (ECE)

(Dr. B.T. Krishna)

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(Dr. K. Venkata Ramanaiah)

(Mr. T. Seetha Ram Kumar)

B.K.N. Jane

(Dr. V. Anil Kumar)

And kumer

(Dr. K. Naga Srinivasa Rao Batta)

(Dr. K. Raju)

(Dr. J. Brahmaiah Naik)

(). Roch

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

(Dr. A.V. Nageswara Rao)

S. Krily (Dr. Sk. Bafidvali)

(Dr. B. Suneetha)

(Dr. Y. Jaipal Redddy)

(Dr. Sk. Ebraheem Khaleelulla)

(Dr. K. Srinivasa Rao)

(Mr. P. S. S. Chakravarthy)

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(AUTONOMOUS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



(R23)

II BOS MINUTES AND SYLLABUS



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### II B.TECH. I SEMESTER SYLLABUS



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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dt: 05/07/2024

### R23 - 2nd Board of Studies (BoS) - Minutes of the Meeting

As per the guidelines of All India Council for Technical Education (AICTE), the instructions from the Andhra Pradesh State Council for Higher Education (APSCHE) and instructions from the affiliated University, JNTUK, the Board of Studies (BoS) has conducted 2<sup>nd</sup> online meeting on 05-07-2024, to frame the Course Structure and Syllabi for the R23 - CSE – II Year B. Tech. (CSE) (I& II Semesters).

The following members are present in the meeting:

S	Name	Designation	Address	Remarks	
1	Dr. S.N.Tirumala Rao	Professor	Dept. CSE, NEC	Chairman	SHIPEMIN
2	Dr.N.Ramakrishnaiah	Professor	Dept. CSE, JNTU Kakinada	Member	N-Ro-lie
3	Dr. R.B.V.Subramanyam	Professor	Dept. of CSE, NIT, Warangal	JNTUK Nominee )	I RTUALLY -M
4	Dr.Ch,Rupa	Professor	VR Siddhartha Engineering College	Alumni Representative	attended
5	V Santhosh Kumar Tangudu	Software Development Engineer – III	Flipkart Internet Private Ltd. Bangalore	Industry Representative	2000
6	Dr.B.Jhansi Vazram	Professor	Dept. IT, NEC	Member	rest.
7	Dr.S.V.N.Sreenivasu	Professor	Dept. CSE, NEC	Member	000
8	Dr. V.V.S Lakshmi	Professor	Dept. AI&ML, NEC	Member	(ava)
9	Dr. K. LakshmiNadh	Professor	Dept. CSE, NEC	Member	Dad
10	Dr. S. Siva Nageswara Rao	Professor	Dept. CSE, NEC	Member	B/
11	Dr.R.SateesKumar	Professor	Dept. CSE, NEC	Member	25/11
12	Dr.M.Sireesha	Assoc. Prof.	Dept. CSE, NEC	Member	11:5-
13	Dr.E.Rama Krishna	Asst.Prof	Dept. CSE, NEC	Member	Jamy.
14	Dr.K.Suresh Babu	Assoc. Prof.	Dept. CSE, NEC	Member	80
15	Dr. K. Soma Sekhar	Assoc. Prof.	Dept. CSE, NEC	Member	Sex



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At the outset, the Chairperson welcomed the members to the R23 2<sup>nd</sup> meeting of BOS and placed the agenda for deliberations.

The minutes of the meeting are summarized as follows:

- Lastitute Vision, Mission statement, Department Vision, Mission statements, PEOs, and PSOs were presented to all the members. All the members checked and concluded that the Department Vision, Mission statements are in line with Institute Vision and Mission
- BOS chairman Welcomed all the BOS members attended.
- 2nd year 1st sem and 2nd year II semester Course structure is reviewed and accepted.
- Data Structures Using Python of Electronics and Communication Engineering is reviewed and accepted.
- Electrical and Electronics Engineering Skill Enhancement Course: Python Programming Lab And Data Structures Lab is reviewed and accepted.
- Six Sigma Model and other CASE Tools are removed from Software engineering and suggest place in SPM course in future semesters
- Industry Member has suggested to include JAVA FX GUI in OOP through JAVA courses and incorporated.
- 8. R24 M.Tech CSE course structure and syllabus is reviewed and accepted.
- Other departments Skill labs for ECE, Mechanical and EEE was reviewed and accepted.

Chairman, BoS

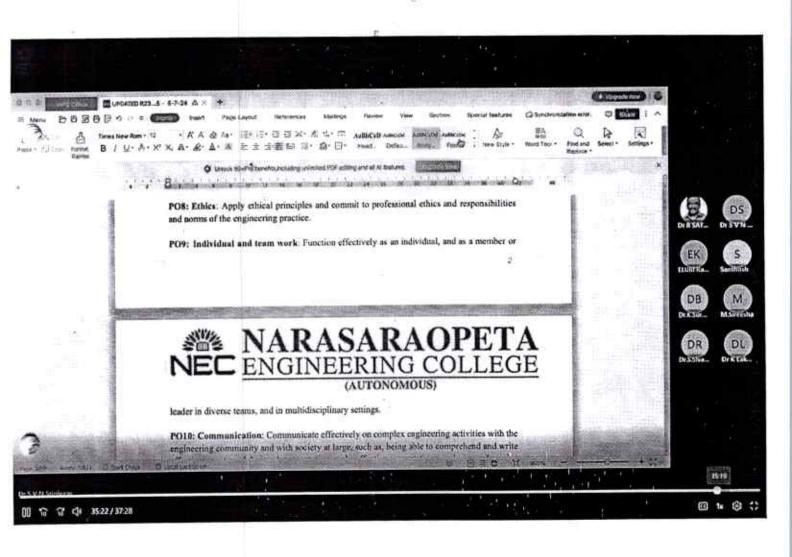
CHAIRMAN

BoS - CSE Dent.

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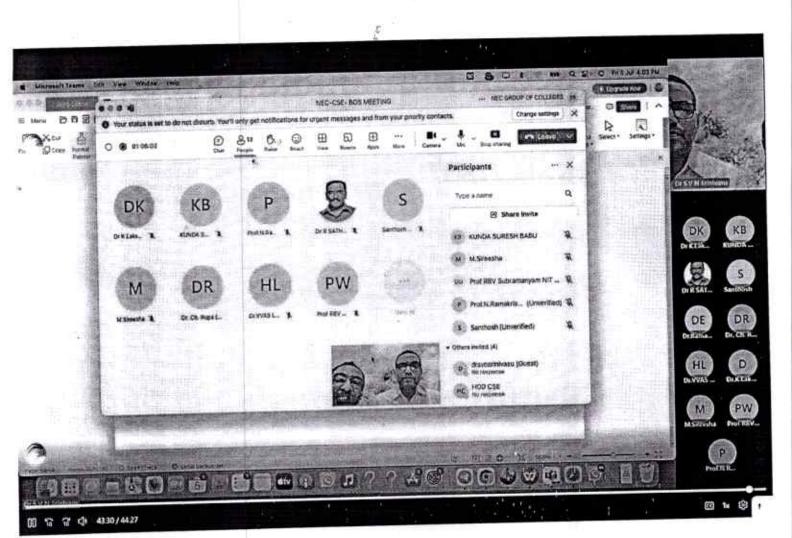
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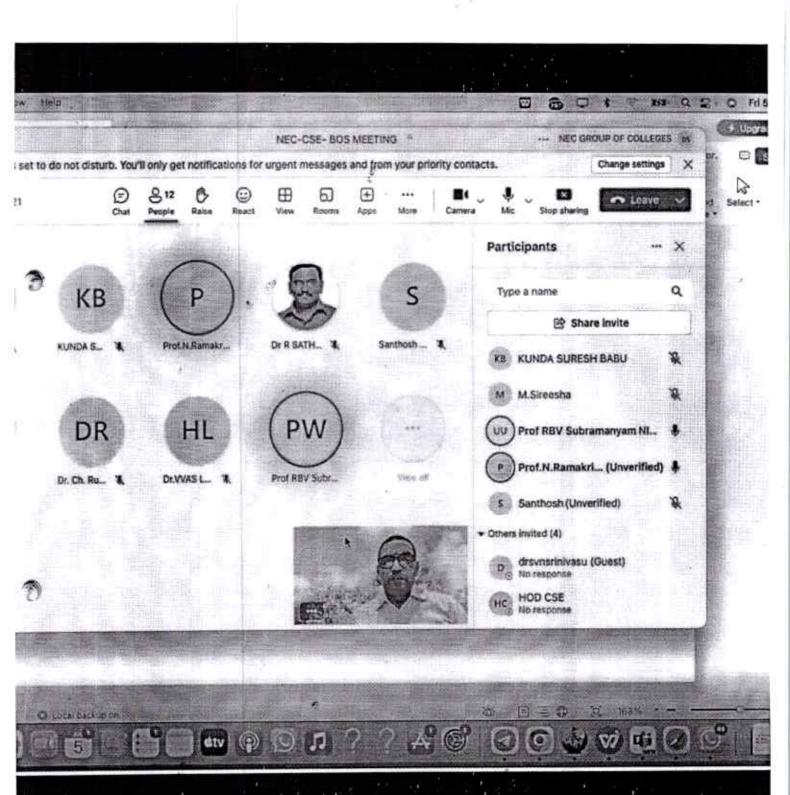
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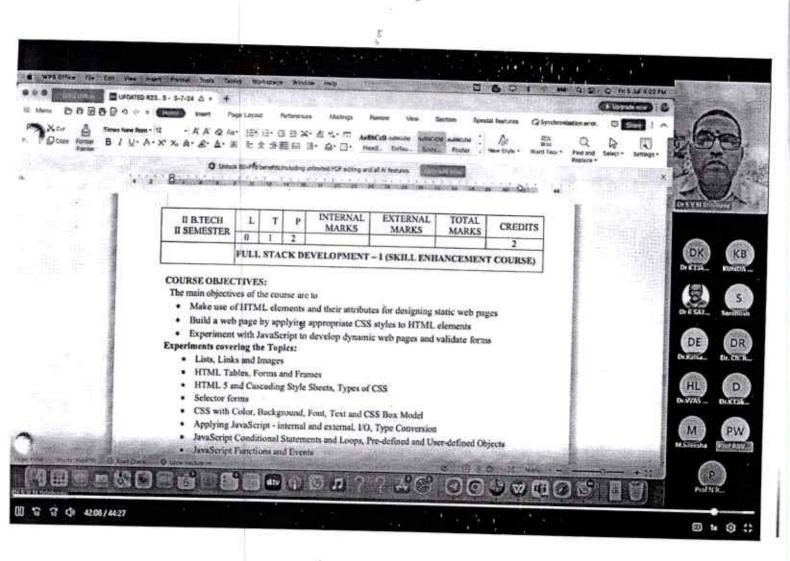


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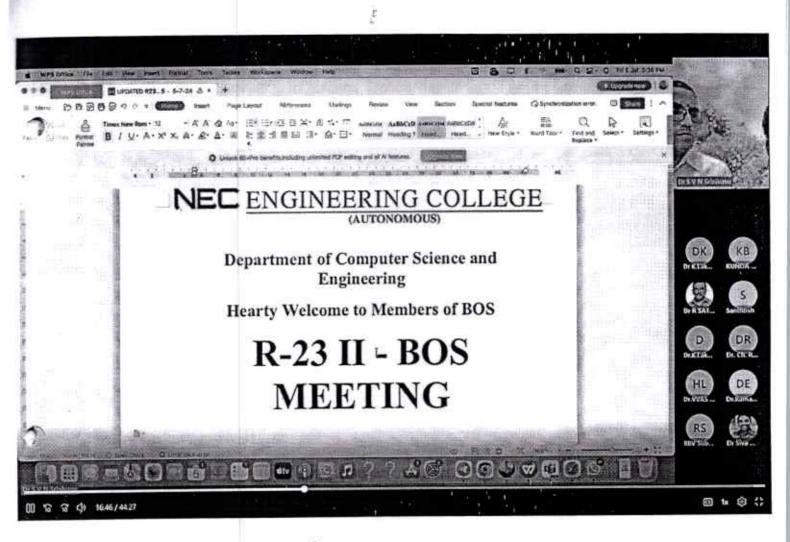
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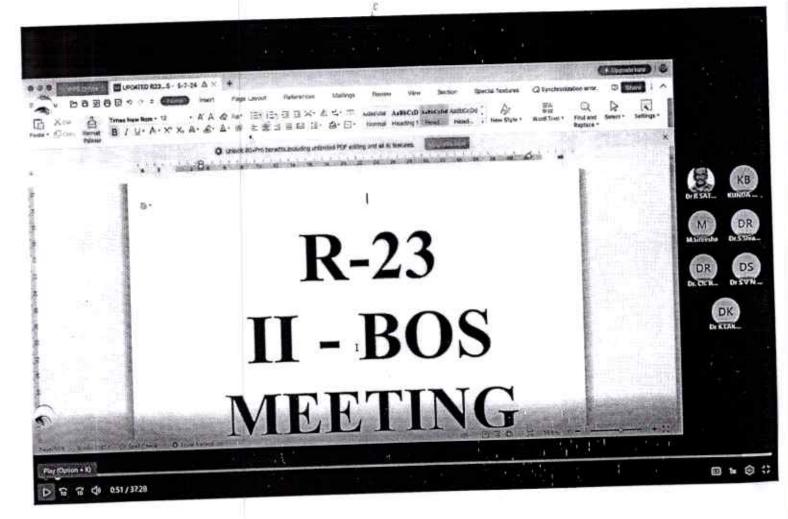


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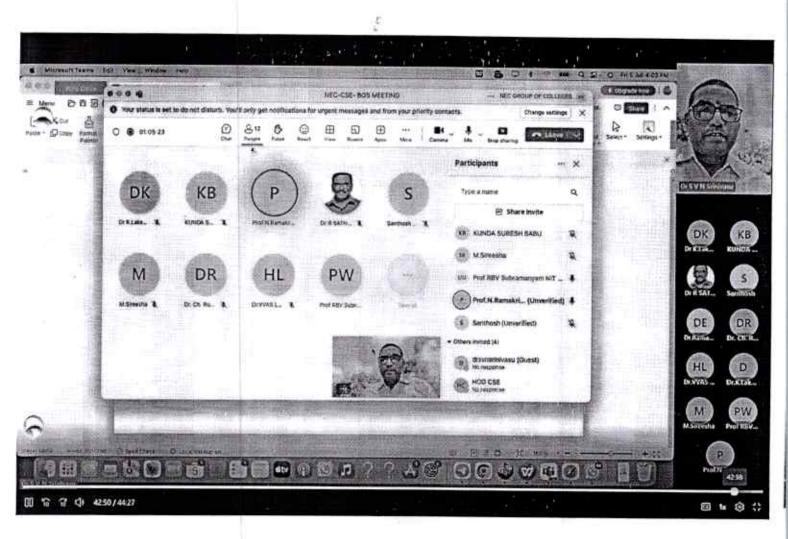
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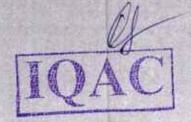
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### DEPARTMENT OF INFORMATION TECHNOLOGY

R23 I. B. Tech. (I & II Semester)
Course Structure and Syllabus



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### NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (Autonomous) DEPARTMENT OF INFORMATION TECHNOLOGY

Dt. 26/9/2023

### Agenda for the Board of Studies (BoS) meeting for R23 UG -B.Tech-IT Programme held on 26-09-2023 in the department of IT

- 1. Introducing the members of Board of Studies of Information Technology
- Views on R23 regulation I B. Tech. semester wise course structure Discussion and finalization of course contents (detailed syllabus) for I and II semesters subjects
- 3. To finalize and approve course structure and syllabus of R23 I B. Tech. I and II Semester
- 4. Any other matter with the permission of the chair

Chairman, Board of Studies Dept. of IT

Copy to:

1) Principal for information

2) Members of BoS

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### NARASARAOPETA ENGINEERING COLLEGE :: NARASARAOPET (AUTONOMOUS)

# DEPARTMENT OF INFORMATION TECHNOLOGY&CSE(ARTIFICIAL INTELLIGENCE) R23 - B. Tech(IT)- 1st - Board of Studies (BoS) Meeting

### ATTENDANCE SHEET

Date:26/09/2023

the approval of Ist B.Tech Course structure and Syllabus) in the Department of IT, Narasaraopeta Engineering College, Narasaraopet. The following BoS members have attended the R23-B.Tech.(IT)-1st Board of Studies (BoS) meeting held on 26/09/2023 (Tu8sday) (for

	PR Member	8977987777, drssnr@yahoo.co.in	Dept. CSE, NEC	Asso.Professor	Dr. S. Sivanageswara Rad Asso.Professor	5
& L	Member	7981815225 drklmn7@gmail.com	Dept. CSE, NEC	Professor	Dr. K. Lakshmi Nadh	4
	Member	9849866902 drsvnsrinivasu@gmail.com	Dept. CSE, NEC	Professor	Dr.S.V.N.Srini Vasu	w
B	Member	9885271324, nagatirumalarao@gmail.com	Dept. CSE, NEC	Professor& Head	Dr. S.N.Tirumala Rao	Ю
7	Chairman	9908888519, jhansi.bolla@gmail.com	Dept. of IT, NEC	Professor& Head	Dr. B.Jhansi Vazaram	-
Signature	Designation	Contact Number	Address	Designation	NAME	S.NO

2

NARASARAOPET - 522 601 Guntur (Dist.), A.P.

(AUTONOMOUS)

Industry Representative	9885397373 anandvenkata@gmail.com	Shore Infotech,Hyderabad,	Tech Lead	Mr.G.Anand	12
Alumni Representative	9666428448 Srinivas.battula@vitap.ac.in	School of CSE, VIT AP,Amaravathi- 522237	Asso.Professor	Dr.B.Srinivasa rao	Ξ
Subject Expert	9490776374 Hemanth_mtech2003@yahoo .com	Dept. CSE, VFSTR University	Professor	Dr.K.Hemanth Kumar	10
Subject Expert	9491346969 rvbs66@gmail.com	Dept. CSE, NIT, Warangal	Professor	Dr.R.B.V.Subramanyam	9
Nominee	9908194643, 9493772798 Gmadhavi.it@jntukucev.ac.in	Dept. CSE, JNTUN, Narasaraopet	Asst.Professor	Dr.G.Madhavi	00
Member	9849122798 vvaslakshmi@nrtec.in	Dept. CSE(CS,DS,&AIML), NEC	Professor& Head	Dr.V.V.S.Lakshmi	7
Member	9492468445 moturisireesha@gmail.com	Dept. CSE, NEC	Asso.Professor	Dr. M.Sireesha	6

HoD, Deptof IT & Chairman, BoS

OR

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### NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (Autonomous) DEPARTMENT CSE(ARTIFICIAL INTELLIGENCE)

Dt. 27/9/2023

### Agenda for the Board of Studies (BoS) meeting for R23 UG -B.Tech-CSE(AI) Programme

### held on 27-09-2023 in the department of CSE(AI)

- 1. Introducing the members of Board of Studies of CSE(Artificial Intelligence)
- Views on R23 regulation I B. Tech. semester wise course structure Discussion and finalization of course contents (detailed syllabus) for I and II semesters subjects
- 3. To finalize and approve course structure and syllabus of R23 I B. Tech. I and II Semester
- 4. Any other matter with the permission of the chair

Chairman, Board of Studies Dept. of IT

Copy to:

1) Principal for information

2) Members of BoS

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### NARASARAOPETA ENGINEERING COLLEGE :: NARASARAOPET (AUTONOMOUS)

# DEPARTMENT OF INFORMATION TECHNOLOGY&CSE(ARTIFICIAL INTELLIGENCE) R23 - B. Tech.(CSE(AI))- 1st - Board of Studies (BoS) Meeting

### ATTENDANCE SHEET

Date:27/09/2023

Narasaraopet. (Wednesday) (for the approval of 1st B.Tech Course structure and Syllabus) in the Department of CSE(AI), Narasaraopeta Engineering College, The following BoS members have attended the R23-B.Tech.(CSE(AI))-1st Board of Studies (BoS) meeting held on 27/09/2023

900						
* Col	Member	7981815225 drklmn7@gmail.com	Dept. CSE, NEC	Professor	Dr. K. Lakshmi Nadh	4
0	Member	9849866902 drsvnsrinivasu@gmail.com /	Dept. CSE, NEC	Professor	Dr.S.V.N.Srini Vasu	ىيا
0.	10000000	"agail dinalarao@gmail.com				
0	Memher	9885271324,	Dept. CSE, NEC	Professor& Head	Dr. S.N.Tirumala Rao	2
X	The House of the H	S CONTRACTOR OF THE CONTRACTOR				
	Chairman	9908888519,	Dept. of CSE(AI), NEC	Professor& Head	Dr. B.Jhansi Vazaram	
C.B. and	N					
Signatura	Designation	Contact Number	Address	Designation	NAME	ONTO



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(AUTONOM@US)
NARASARAOPET - 522 601

Guntur (Dist.); A.P. -

=	10	9	00	7	6	CA:
Mr.T.Aditya Kumar	Dr.D.Jaya Kumari	Dr.Karthick.S	Dr.K.V.Ramana	Dr.V.V.S.Lakshmi	Dr. M.Sireesha	Dr. S. Sivanageswara Rao
Sr. Applications Engineer	Professor	Asst.Professor & Head	Professor	Professor& Head	Asso.Professor	Asso.Professor
Oracle India Private Ltd.Bengaluru	Dept.CSE, Vasavi Engineering College,Thadepalligud em,AP	Dept.CSE,NIT,Thade palligudam,AP	Dept. CSE, JNTUCE,JNTUK, Kakinada	Dept. CSE(CS,DS,&AIML), NEC	Dept. CSE, NEC	Dept. CSE, NEC
9100906867* Tadityakumar78@gmail.com	9885066229 Jaya_510@srivasaviengg.ac.i n	9444962577  Hid cse@nitandhra.ac.in Karthick.seshadri@nitandhra. ac.in	91777800000° vamsivihar@gmail.com	9849122798 vvaslakshmi@nrtec.in	9492468445 moturisireesha@gmail.com	8977987777, drssnr@yahoo.co.in
Proposed Industry Representative	Alumni Representative	Subject Expert	JNTUK Nominee	Member	Member	Member
			MAN C	Charach	₩	S



HoD, Dept.of CSE(Al) & Chairman, BoS

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### DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)

### R23 - I BOS - Minutes of the Meeting

Dt: 27/9/2023

As per the instructions of the principal, R23 1st Board of Studies (BoS) meeting was conducted to frame the I B. Tech (CSE (Artificial Intelligence)) – I & II Semester course structure and syllabus. The BoS has conducted online meeting on 26/9/2023.

The following members are present in the meeting:

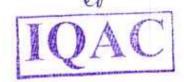
- 1. Dr. B. Jhansi Vazram, Chairman
- 2. Dr. S. N. Tirumala Rao, Member
- 3. Dr. S.V. N. Sreenivasu, Member
- 4. Dr. K. Lakshmi Nadh, Member
- 5. Dr. S. Siva Nageswara rao, Member
- 6. Dr. M. Sireesha, Member
- 7. Dr. V. V. A. S. Lakshmi, Member \www.
- 8. Dr. K. V. Ramana, Professor, Dept. of CSE, JNTUK, JNTUK Nominee\_
- 9. Dr. D. Jaya Kumari, Professor, Dept. of CSE, Vasavi Engg College, Thadepalligudem

### Resolutions made in the meeting:

- Members suggested to
  - a. Change the title of Introduction to Programming can be changed to C/ Python etc.
  - b. Change the course name of Engineering Workshop to IT workshop.
- 2. Members advised to
  - Reduce the syllabus of Basic Electrical and Electronics Engineering course as the syllabus is huge,
  - Students need awareness on hardware components of system.
- If any movement of contents from one UNIT to another in any course, the same should be informed to University.
- With the above suggestions, all the members of BoS approved Course Structure and Syllabus
  of R23 I B. Tech. CSE( Artificial Intelligence) i.e. up to I year B. Tech. II Semester.
  Chairman BoS concluded the meeting with vote of thanks to all the members.

POINT DE BOS - CSE(AI)
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Guntur (Dist.), A.P.







### Request to attend for BoS Meeting

From Dr.VVAS Lakshmi, HoD CSE(AIML, CS, DS) <aicsdshod@nrtec.in>

Date Mon 9/25/2023 9:59 AM

ckm@cse.iith.ac.in <ckm@cse.iith.ac.in>

Good Morning Sir.

With reference to subject cited above, we would like to inform you that CSE (Artificial Intelligence & Machine Learning) is conducting Online BoS meeting on 25-09-2023 @ 3PM for approval of syllabus of B.Tech. I Year Year. Hence, we request you to act as BoS Member for the Department of CSE (Artificial Intelligence & Machine Learning) and give us your valuable suggestions. Virtual meeting link will be sent to your email.

https://teams.microsoft.com/l/meetup-

join/19%3ameeting N2ZhYTA0YmQtMmE3Mi00NmZiLTgxMzktZjE5ZjZkMmRmNzVm%40thread.v2/0 ?context=%7b%22Tid%22%3a%2276254ace-27ad-489b-9f92-

b6f1aa89d5d4%22%2c%22Oid%22%3a%22cc38ad36-f59f-4a8c-9f45-4cf536e0b763%22%7d



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Dr.V.V.A.S.Lakshmi Professor & HoD Department of CSE (AI&ML, CS, DS) Narasaraopeta Engineering College (Autonomous) Narasaraopet.



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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

2nd BOARD OF STUDIES (BOS) MEETING ON 25-09-2023

25th September, 2023

### AGENDA

- Welcome by the Chairman.
- Discussion on R23-Syllabus of I B.Tech. CSE (Artificial Intelligence & Machine Learning).
- General suggestions by members.
- Any other information with the permission of the Chairman.
- Vote of thanks

W

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Chairman, BOS (Al&ML) (Dr.V.V.A.S.Lakshmi)



(AUTONOMOUS)

DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

### 2nd BoS Members

S.No.	Name	Designation	Category
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman
2	Dr.D.Rajya Lakshmi	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Experi
4	Dr.K.Karteeka Pavan	Professor & Head Dept. of MCA, R.V.R & J.C.College of Engineering, GNT	Subject Expert
5	Mr.G.N.M.Raju	Principal Consultant Cyient Ltd. Hyderabad	Industry Representative
6	Mr.R.Yuvarj	SAP Senior Consultant DXC Technologies	Alumni Representative
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member
8	Dr.S.V.N.Srinivasu	Professor Dept. of CSE, NEC	Member
9	Dr.K.Lakshmi Nadh	Professor Dept. of CSE, NEC	Member
10	Dr.S.Siva Nageswara Rao	Professor Dept. of CSE, NEC	Member
11	Dr.M.Sireesha	Asso.Professor Dept. of CSE, NEC	Member

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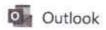
25th Sep, 2023

### Minutes of the 1ST Board of Studies (BoS) Meeting for R23 Regulation I B.Tech I Year.

Dr. V.V.A.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the First Board of Studies meeting (R23 Regulation) in the department of CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING). The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

S.No.	Name	Designation	Category	Signature
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman	(and
2	Dr.D.Rajya Lakshmi	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee	
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert	
4	Dr.K.Karteeka Pavan	Professor & Head Dept. of MCA, R.V.R & J.C.College of Engineering, GNT	Subject Expert	
5	Mr.G.N.M.Raju	Principal Consultant Cyient Ltd. Hyderabad	Industry Representative	
6	Mr.R.Yuvarj	SAP Senior Consultant DXC Technologies	Alumni Representative	
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member	(3.0)
8	Dr.S.V.N.Sriniyasu	Professor Dept. of CSE, NEC	Member	,
9	Dr.K.Lakshim Nadh	Professor Dept. of CSE, NEC	Member	Kurd
10	Dr.S Siva Nageswaran	Dept. of CARASABEOPETA	NGIPAL MREPANG COLLEGE	- D
11	Dr.M.Streesha	Assoc.Professor (AUTO	NOMOUS)	\$



### Request to attend for BoS Meeting

From Dr.VVAS Lakshmi, HoD CSE(AIML, CS, DS) <aicsdshod@nrtec.in>

Date Mon 9/25/2023 10:00 AM

To ckm@cse.iith.ac.in <ckm@cse.iith.ac.in>

Good Morning Sir,

With reference to subject cited above, we would like to inform you that Artificial Intelligence & Machine Learning is conducting Online BoS meeting on 26-09-2023 @ 3PM for approval of syllabus of B.Tech. I Year. Hence, we request you to act as BoS Member for the Department of Artificial Intelligence & Machine Learning and give us your valuable suggestions. Virtual meeting link will be sent to your email.

https://teams.microsoft.com/l/meetup-

join/19%3ameeting\_OTMxY2EyNjEtZDgxZS00NjQ2LTk4YzUtZWVkNmFjNjU2ZmYy%40thread.v2/0?context=%7b%22Tid%22%3a%2276254ace-27ad-489b-9f92-

b6f1aa89d5d4%22%2c%22Oid%22%3a%22cc38ad36-f59f-4a8c-9f45-4cf536e0b763%22%7d



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Dr.V.V.A.S.Lakshmi Professor & HoD Department of CSE (AI&ML, CS, DS) Narasaraopeta Engineering College (Autonomous) Narasaraopet.



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(AUTONOMOUS)

# DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

1st BOARD OF STUDIES (BOS) MEETING ON 26-09-2023

26th September, 2023

### AGENDA

- Welcome by the Chairman.
- Discussion on R23-Syllabus of I B.Tech. Artificial Intelligence & Machine Learning.
- General suggestions by members.
- Any other information with the permission of the Chairman.
- Vote of thanks

PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGI NARASARAOPET - 522 601 (AUTONOMOUS)

Guntur (Dist.), A.P.

Chairman, BOS - AI&MI (Dr.V.V.A.S.Lakshmi)



### Members of Board of Studies

No.	Name	Designation	Category
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman
2	Prof.D.Rajya Lakshmi	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert
4	Dr.K.Karteeka Pavan	Professor & Head Dept. of MCA, R.V.R & J.C.College of Engineering, GNT	Subject Expert
5	Mr.G.N.M.Raju	Principal Consultant Cyient Ltd. Hyderabad	Industry Representative
6	Mr.R.Yuvarj	SAP Senior Consultant DXC Technologies	Alumni Representative
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member
8	Dr.S.V.N.Srinivasu	Professor Dept. of CSE, NEC	Member
9	Dr.K.Lakshmi Nadh	Professor Dept. of CSE, NEC	Member
10	Dr.S.Siva Nageswara Rao	Professor Dept. of CSE, NEC	Member
11	Dr.M.Sireesha	Assoc.Professor Dept. of CSE, NEC	Member

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\*\*AKASARADPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P.



### DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

26th Sep, 2023

### Minutes of the 1st Board of Studies (BoS) Meeting for R23 Regulation I B.Tech I Year.

Dr. V.V.A.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the First Board of Studies meeting (R23 Regulation) in the department of ARTIFICIAL INTELLIGENCE & MACHINE LEARNING. The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

S.No.	Name	Designation	Category	Signature
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman	PORES
2	Dr.O.Srinivasa Rao	Professor of CSE UCEK, JNTU Kakinada	JNTUK Nominee	O. Slant
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert	
4	Dr.K.Karteeka Pavan	Professor & Head Dept. of MCA, R.V.R & J.C.College of Engineering, GNT	Subject Expert	
5	Mr.G.N.M.Raju	Principal Consultant Cyient Ltd. Hyderabad	Industry Representative	
6	Mr.R.Yuvarj	SAP Senior Consultant DXC Technologies	Alumni Representative	
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member	Sal
8	Dr.S.V.N.Srinivasu	Professor Dept. of CSE, NEC	Member	80
9	Dr.Kalakshini Xadih		ANAGENDETENGINEER	RING COME EQE ~~
10	Dris Siya Nageswara Rao	Dept. of CSE, NEC	Guntur (Dist.)	522 6019
11	The M. Sireesha	Assoc.Professor	Member	8

### BoS for CSE (AI&ML) - Narasaraopeta Engineering College - 30-12-2023 - Req. -Reg.

Dear Sir/Mam,

Following our recent phone conversation, we are pleased to inform you that the BoS meeting to finalize the R20 CSE(AI&ML) 3rd and 4th Year course structure and syllabus has been scheduled for December 30, 2023. The meeting will take place online.

I am herewith attaching the proposed course structure and syllabus documents for your review. Your valuable suggestions and insights are crucial in ensuring the comprehensive quality of the syllabus.

### Meeting Details:

1. Date: December 30, 2023

2. Time: 10.00 AM

3. Platform: Microsoft Teams

### Agenda:

1. Welcome and Introduction

- 2. Overview of R20 3rd and 4th Year Course Structure and Syllabus
- 3. Discussion and incorporation of Suggestions
- 4. Approval Process
- Closing Remarks

Kindiy come prepared with your feedback and suggestions to make the meeting as productive as possible. Your presence and input are integral to the decision-making process, and we look forward to benefiting from your expertise during the meeting.

Thank you for your continued dedication to our organization.

Thanks & Regards,

Dr.V.V.A.S.Lakshmi

Professor & HoD

Department of CSE (AI&ML)

Narasaraopeta Engineering College (Autonomous)

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Guntur (Dist.), A.P.



### Members of Board of Studies

S.No.	Name	Designation	Category
1	Dı.V.V.A.S.Lakshmi	Professor & Head	Chairman
2	Prof.D.Rajya Lakshmi	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert
4	Dr.K.Karteeka Pavan	Professor & Head Dept. of MCA, R.V.R & J.C.College of Engineering, GNT	Subject Expert
5	Mr.G.N.M.Raju	Principal Consultant Cyient Ltd. Hyderabad	Industry Representative
6	Mr.R.Yuvarj	SAP Senior Consultant DXC Technologies	Alumni Representative
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member
8	Dr.S.V.N Srinivasu	Professor Dept. of CSE, NEC	Member
9	Dr.K.Lakshmi Nadh	Professor Dept. of CSE, NEC	Member
10	Dr.S.Siva Nageswara Rac	Professor Dept. of CSE, NEC	Member
11	Dr.M.Sircesha	Assoc.Professor Dept. of CSE, NEC	Member

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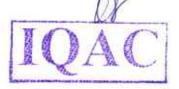


### Minutes of the BoS Meeting

Dr. V.V.A.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the 3<sup>rd</sup> BoS meeting for (2<sup>rd</sup> BOS meeting for R20 regulations) III and IV Year of the CSE (ARTIFICAL INTELLIGENCE & MACHINE LEARNING) was held on 30-12-2023 @ 10.00 AM. in the department ... The discussion on the items mentioned in the Board of Studies meeting agend was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

S.No.	Name	Designation	Category	Signature
1	Dr.V.V.A.S. Lakshmi	Professor & Head	Chairman	Lores
2	Prof.D.Rajya Lakshmi	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee	
3	Dr C Erishaa Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert	
4	Dr.K.Kaneeka Favan	Professor & Head Dept. of MCA, R.V.R & J.C.College of Engineering, GNT	Subject Expert	
5	Ivir.O. J., v. Raju	Principal Consultant Cylent Ltd. Hyderabad	Industry Representative	
6	Mr R. Yuvarj	SAP Senior Consultant DXC Technologies	Alumni Representative	
7	Dr.S.N.Tiruranla Rao	Professor & Head Dept. of CSE, NEC	Member	5.731~
8	Dr.S.V.N. Srinivasu	Professor Dept. of CSE, NEC	Member	20,
9	Dr.K.I akshmi Nadh	Professor Dept. of CSE, NEC	Member	Kind
10	Dr.S.Siva Nagestvara. Rao	Professor Dept. of CSE, NEC	Member	9
11	Dr.M.Sireesha	Assoc.Professor Dept. of CSE, NEC	Member	n.sinl



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Guntur (Dist.), A.P.



1. Welcome address by Chalman of BoS and introduction of members.

Chattanan, of BoS. Dr.V.V.A.S.Lakshmi, HoD, CSE (AIML), Principal Dr.M.Srecenivasa Kumar welcomed all the members of CSE (AIML) BoS. She introduced JNTUK nominee Prof. D.Rajya Lakshmi, Profesor, Department of CSE, UCEV, Subject experts Dr.C.Krishna Mohan. Profesor in CSE, , Dean (Public & Corporate Relations) IIIT, Hyderabad, Dr.Kardincha Profesor & Profesor & HoD, Department of MCA, RVRJC College of Enginering, Mr.G.Naga McNesvata Raja, Principal Consultant, Cyient Ltd., Alumni member Mr.R.Yuaraj, SAP Senior Consultant, DXC Technologies, followed by Internal members Dr.S.N.Tirumala Rao, Dr.S.V.N.Srinavasu, Dr.K.Lakshmi Nadh, Dr.S.Siva Nageswara Rao and Dr.M.Sireesha. The agenda for DoS meeting was read and the discussion is open for individual subject deliberation.

 Disensida on rourse structure & syllabus for B.Tech. CSE (Artificial Intelligence & Machine Learning) 22 batch III and IV Year.

BoS members have appreciated the structure and syllabus in general and also the following suggestions are given by members for adding and editing slight content in the various subjects. They are,

- (i) for Smill get-inted labs one theory class and three lab hours are recommended.
- Finalization of syllabus along with incorporation of recommendations and suggestions for B.Toen. Che. (Artificial Intelligence & Machine Learning) III and IV Year from the academic year 2024-25;

The changes are mode as per the recommendations of the BoS have been finalized.

4. Summarizing the minutes of meeting:

After discussion with BoS members, the changes in the syllabus listed in agenda 2 have been agreed upon and will be incorporated in the syllabus proposed for III and IV Year students of 2022 out to (1020 regulations).

5. Approvar of the prosestructure & syllabus:

The encloses control structure and syllabus was approved by BOS ALL STRUCTURE and Syllabus was approved by BOS ALL STRUCTURE AND STRUCTURE AND

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### Department of CSE (Artificial Intelligence & Machine Learning)

### 6 Vote of manks by Chairman of BoS

The Chairperson, Dr.V.V.A.S.Lakshmi, proposed the vote of thanks. She individually thank the BoS members for their committed participation in the discussion and for their valual input to the course. She then thanked industry experts and other members of the BoS for the valuable involvement in the syllabus discussion.

Chairman BoS- CSE (AI&ML)

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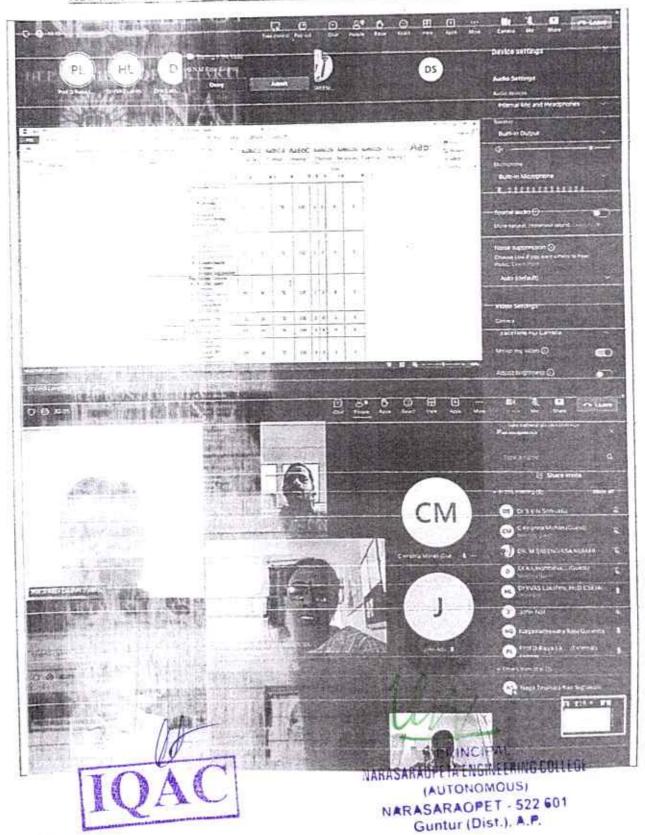
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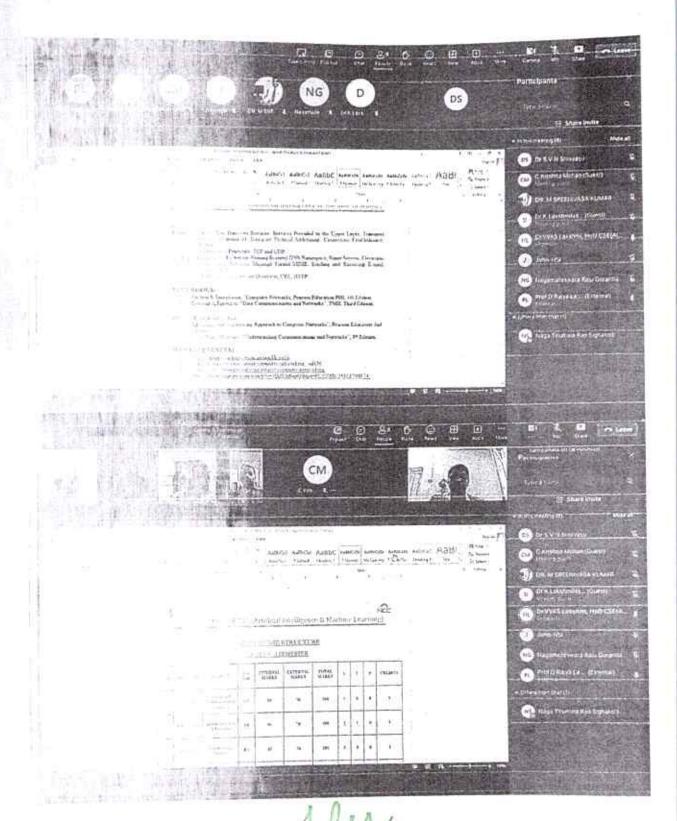
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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

### R20 BOS FOR THE IV YEAR COURSE STRUCTURE AND SYLLABUS





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### BoS for CSE (Data Science) - Narasaraopeta Engineering College - 13-12-2023 - Req. -Reg.

Dr.VVAS Lakshmi, HoD CSE (AIML, CS, DS) <aicsdshod@nrtec.in> Wed 12/6/2023 11:08 AM

To:raob4u@jntukucev.ac.in <raob4u@jntukucev.ac.in>;ckm@cse.iith.ac.in <ckm@cse.iith.ac.in>; simambi@gmail.com <simambi@gmail.com>;y0cs316@yahoo.co.in <y0cs316@yahoo.co.in>; anilkumar.hfm@gmail.com <anilkumar.hfm@gmail.com>

1 attachments (314 KB)
R20 DATA SCIENCE SYLLABUS BOOK.doo;

Dear Sir/Mam,

Following our recent phone conversation, we are pleased to inform you that the BoS meeting to finalize the R20 CSE (Data Science) 3rd and 4th Year course structure and syllabus has been scheduled for December 16, 2023. The meeting will take place online.

I am herewith attaching the proposed course structure and syllabus documents for your review. Your valuable suggestions and insights are crucial in ensuring the comprehensive quality of the syllabus.

### Meeting Details:

1. Date: December 13, 2023

2. Time: 10.00 AM

3. Platform: Microsoft Teams

### Agenda:

1. Welcome and Introduction

- 2. Overview of R20 3rd and 4th Year Course Structure and Syllabus
- 3. Discussion and Incorporation of Suggestions
- 4. Approval Process
- 5. Closing Remarks

Kindly come prepared with your feedback and suggestions to make the meeting as productive as possible. Your presence and input are integral to the decision-making process, and we look forward to benefiting from your expertise during the meeting.

Thank you for your continued dedication to our organization.

Thanks & Regards,

Dr.V.V.A.S.Lakshmi
Professor & HoD
Department of CSE (Al&ML, CS, DS)
Narasaraopeta Engineering College (Autonomous)
Narasaraopet.

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MARASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601

Guntur (Dist.), A.P.



### Members of Board of Studies

S.No.	Name	Designation	Remarks
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman
2	Dr.R.Rajeswara Rao	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert
4	Dr.S.Sagar Imambi	Professor Dept. of CSE, KLU Deemed to be University	Subject Expert
5	Mrs.M.Rohini	Quality Assurance Manager, Oracle, Hyderabad	Industry Representative
6	Mr.Ch.Anil Kumar	Techlead, Walmart, Bangalore	Alumni Representative
7	Dr.S.N.Tirumala Rao	Professor & Head, Dept. of CSE, NEC	Member
8	Dr.B.Jhansi Vajram	Professor & Head, Dept. of IT & CSE(AI), NEC	Member
9	Dr.S.V.N.Srinivasu	Professor Dept. of CSE, NEC	Member
10	Dr.K.Lakshmi Nadh	Professor Dept. of CSE, NEC	Member
11	Dr.M.Sireesha	Assoc.Professor Dept. of CSE, NEC	Member



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WATHASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P.



### Minutes of the BoS Meeting

Dr. V.V.A.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the 3<sup>rd</sup> BoS meeting for (2<sup>nd</sup> BOS meeting for R20 regulations) III and IV Year of the CSE (Data Science) was held on 13-12-2023 @ 10.00 AM. in the department — The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

S.No.	Name	Designation	Category	Signature
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman	lash
2	Dr.R.Rajeswara Rao	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee	
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert	
4	Dr.S.Sagar Imambi	Professor Dept. of CSE, KLU Deemed to be University	Subject Expert	
5	Mrs.M.Rohini	Quality Assurance Manager, Oracle, Hyderabad	Industry Representative	
6	Mr.Ch.Anil Kumar	Techlead, Walmart, Bangalore	Alumni Representative	
7	Dr.S.N.Tirumala Rao	Professor & Head, Dept. of CSE, NEC	Member	S. Tim'
8	Dr.B.Jhansi Vajram	Professor & Head, Dept. of IT & CSE(AI), NEC	Member	rest.
9	Dr.S.V.N.Srinivasu	Professor Dept. of CSE, NEC	Member	22
10	Dr.K.Lakshmi Nadh	Professor Dept. of CSE, NEC	Member/	Klud
11	Dr.M.Sireesha	Assoc.Professor  Dept. of CSE, NECARASA	MemberIPAL	Max and

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1. Welcome address by Chairman of BoS and introduction of members.

Chairman of BoS, Dr.V.V.A.S.Lakshmi, HoD, CSE (DS), Principal Dr.M.Sreenivasa Kumar welcomed all the members of CSE (DS) BoS. She introduced JNTUK nominee Dr.R.Rajeswara Rao, Profesor, Department of CSE, UCEV, Subject experts Dr.C.Krishna Mohan, Professor in CSE, Dean (Public & Corporate Relations) IIIT, Hyderabad, Dr.S.Sagar Imambi, Professor, Department of CSE, KLU Deemed to be University, Industry Expert Mrs.M.Rohini, Quality Assurance Manager, Oracle, Alumni Member Mr.Ch.Anil Kumar, Techlead. Walmart, Bangalore, followed by internal members Dr.S.N.Tirumala Rao, Dr.B.Jhansi Vazram, Dr.S.V.N.Srinivasu, Dr.K.Lakshmi Nadh and Dr.M.Sireesha. The agenda for BoS meeting was read and the discussion is open for individual subject deliberations.

Discussion on course structure & syllabus for B.Tech. CSE (Data Science) 22 batch III and IV Year.

BoS members have appreciated the structure and syllabus in general. After thorough deliberations, the Board of Studies (BoS) members engaged in a discussion on the R20 Course Structure and Syllabus for the III & IV years of the B.Tech. CSE (Data Science). During this discourse, the BoS members shared their perspectives and recommendations on the aforementioned course structure and syllabus. The following suggestions, amendments, and recommendations were put forth by the board members.

- (a) Introduce Bigdata Analytics in III Year I Semester.
- (b) Introduce Data Analytics & Visualization in III Year II Semester.
- (c) Change the name of Software Lab-II in III Year II Semester as Machine Learning Lab.

 Finalization of syllabus along with incorporation of recommendations and suggestions for B,Tech. CSE (Data Science) III and IV Year from the academic year 2024-25:

Based on the aforementioned suggestions, the entire Board of Studies (BoS) has granted approval to the Course Structure and syllabus for R20 B.Tech. CSE (Data Science) for the III & IV years.

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### 4. Summarizing the minutes of meeting:

After discussion with BoS members, the changes in the syllabus listed in agenda 2 have been agreed upon and will be incorporated in the syllabus proposed for III and IV Year students of 2022 batch (R20 regulations).

### 5. Approval of the course structure & syllabus:

The enclosed course structure and syllabus was approved by BoS.

### 6. Vote of thanks by Chairman of BoS

The Chairperson, Dr.V.V.A.S.Lakshmi, proposed the vote of thanks. She individually thanked the BoS members for their committed participation in the discussion and for their valuable input to the course. She then thanked industry experts and other members of the BoS for their valuable involvement in the syllabus discussion.

BoS-CSE (DS)

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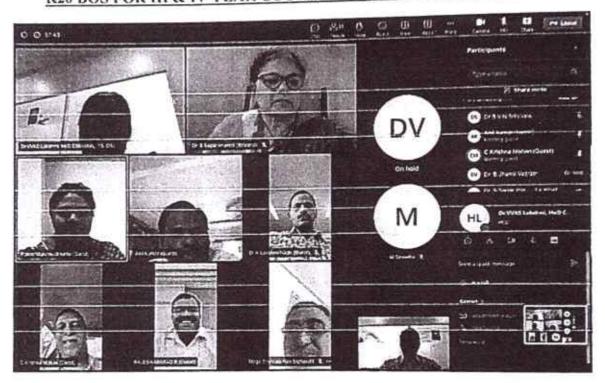
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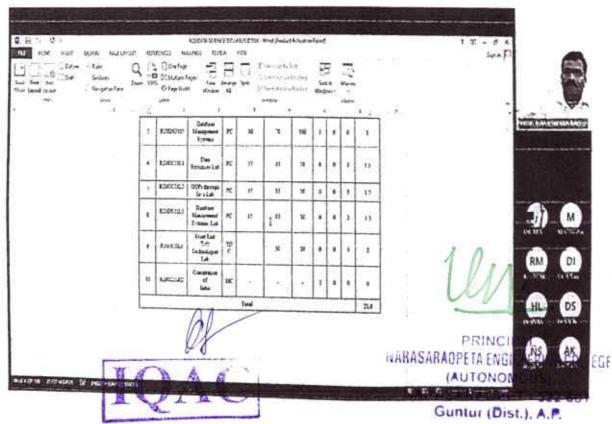
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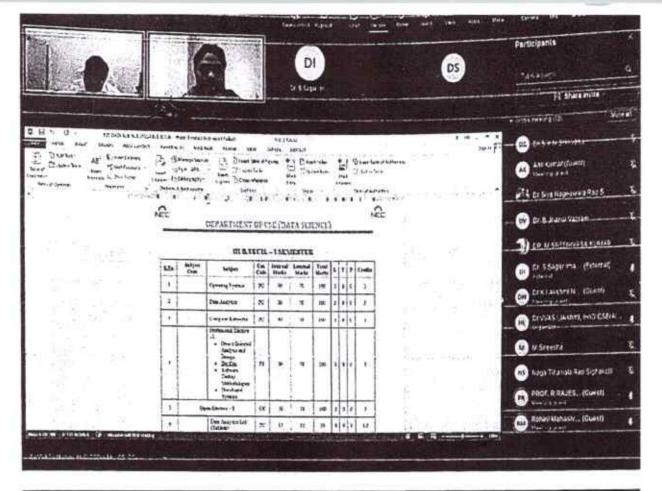
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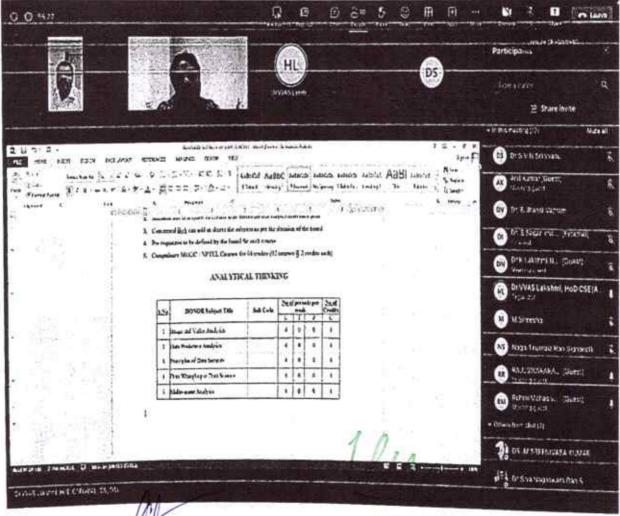
DEPARTMENT OF CSE (DATA SCIENCE)

### R20 BOS FOR III & IV YEAR COURSE STRUCTURE AND SYLLABUS











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(AUTONOMOUS)
NARASARAOFET - 522 601
Guntur (Dist.), A.P.



### Requesting to attend for BoS Metting

From Dr.VVAS Lakshmi, HoD CSE(AIML, CS, DS) <aicsdshod@nrtec.in>

Date Mon 9/25/2023 9:54 AM

To ckm@cse.iith.ac.in <ckm@cse.iith.ac.in>

### Good Morning Sir,

With reference to subject cited above, we would like to inform you that CSE (Data Science) is conducting Online BoS meeting on 25-09-2023 @ 11AM for approval of syllabus of B.Tech. I Year Year. Hence, we request you to act as BoS Member for the Department of CSE (Data Science) and give us your valuable suggestions. Virtual meeting link will be sent to your email.

### https://teams.microsoft.com/l/meetup-

join/19%3ameeting\_MjY4ZDBkMWMtNjM5MC00ZTVjLWExMmUtYWZhNTQ4ZWZhZWJh%40thread.v 2/0?context=%7b%22Tid%22%3a%2276254ace-27ad-489b-9f92-

b6f1aa89d5d4%22%2c%22Oid%22%3a%22cc38ad36-f59f-4a8c-9f45-4cf536e0b763%22%7d

Dr.V.V.A.S.Lakshmi
Professor & HoD
Department of CSE (AI&ML, CS, DS)
Narasaraopeta Engineering College (Autonomous)
Narasaraopet.

PRINCIPAL

WARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P.

# NARASARA OPETA ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF CSE (DATA SCIENCE)

2nd BOARD OF STUDIES (BOS) MEETING ON 25-09-2023

25th September, 2023

### AGENDA

- Welcome by the Chairman.
- Discussion on R23-Syllabus of I B.Tech. CSE (Data Science).
- General suggestions by members
- Any other information with the permission of the Chairman.
- Vote of thanks

WARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS) PRINCIPAL

> Chairman, BOS (DS) (Dr. V.V.A.S.Lakshmi)



DEPARTMENT OF CSE (DATA SCIENCE)

25th September, 2023

### Board of Studies (BOS) of CSE (DS)

### ATTENDANCE SHEET

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Industry			University		DI.S.Sagai amanio.	4
Expert	simambi@gmail.com	9000443147	Deemed to be	Professor	D-c Carer Imambi	
Subject			Hyderabad			
Subject Expert	ckm@cse.iith.ac.in	9491712312	(Public & Corporate Relations) IIT.	Professor	Dr.C.Krishna Mohan	ω
			Dent of CSE, Dean			t
Monthine	1000	9939339430	UCEV, JNTUK	Professor	Dr.R.Rajeswara Rao	3
Nomine	rach4u@intukucev.ac.in	2570550456	Dent of CSE		DI.U.L.IV.Jayaprawa	-
WITH W	VVasiaKsiiiii(@gman.vom	9849122798	Dept. of USE (Data	Professor & Head	D. C.I. N. Javanrada	
Chairman			SCCE Data	0	400	S.No.
	MIRIA	Number	Address	Designation	Nama	

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Member	HOLIN ISH CESHWER	2778976070		T. A. C. A. C. C.	Dr.K.Laksmin ivanii	9
	mail.co	101010101	Dept. of CSE, INEC	Professor	To Labori Nodh	
Mennon	drklmn7(a)gmail.com	7981815225	CORP MEC			0
Mamher	m	701/2007-0-	Dept. of USE, NEW	Professor	D. C V N Srinivasu	0
Memori		9849866902	S COSE NEC			
Mamher	drevnerinivasu@gmail.co		NEC	LIOICS301 or 13000	Dr.B.Jhansi Vajram	7
	Ithod(@intec.ni	9908888519	Dept. of 11 or AL	Desfaceor & Head		
Member	:		1 V 6 3,13		Rao	
	om	47C117C996	Dept. of CSE	Professor & Head Dept. of CSE	Dr.S.N.Tirumala	
Member	nagtirumalarao@gman.c	0005771374			TATL COLOR DESCRIPTION	
			A Mariana to The Co.	Lechicad	M-Ch Anil Kumar	
Represen-tative	3	9916717577	Walmart Bangalore			
Alumni	anilkumar.hfm@gmail.co Alumin					

Chairman, BOS (DS) (Dr. V.V.A.S.Lakshmi)



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DEPARTMENT OF CSE (DATA SCIENCE)

25th Sep, 2023

### Minutes of the 1ST Board of Studies (BoS) Meeting for R23 Regulation I B. Tech I Year

Dr. V.VA.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the First Board of Studies meeting (R23 Regulation) in the department of CSE (DATA SCIENCE). The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

No.	Name	Designation	Remarks	Signature
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman	/and
2	Dr.R.Rajeswara Rao	Professor Dept. of CSE, UCEV, JNTUK	JNTUK Nominee	
3	Dr.C.Krishna Mohan	Professor Dept. of CSE, Dean (Public & Corporate Relations) IIT, Hyderabad	Subject Expert	
4	Dr.S.Sagar Imambi	Professor Dept. of CSE, KLU Deemed to be University	Subject Expert	Sow
5	Mrs.M.Rohini	Quality Assurance Manager, Oracle, Hyderabad	Industry Representative	
6	Mr.Ch.Anil Kumar	Techlead, Walmart, Bangalore	Alumni Representative	
7	Dr.S.N.Tirumala Rao	Professor & Head, Dept. of CSE, NEC	Member	8.0
8	Dr.B.Jhansi Vajram	Professor & Head, Dept. / of IT &AI, NEC	Member	~ _
9	Dr.S.V.N.Srinivasu	Professor Dept. of CSE, NEC	Member	
10	Dr.K. Ashmi Nadh	Professor Dept. of CSE, NEC	Member PRINCIPAL	Klurd
Wik	Dr.M.Sireesha	Assoc.Professor whhasARAD	HELM ENGINEERING CH	LLEGE \$

1. Summary

Meeting title

Attended participants

Start time

End time

Meeting duration

CSE (DATA SCIENCE) 2ND BoS MEETING - 1 YEAR R23

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Rohini Mahasivabnattu (Guest)	4)			simambi@klunlversity.in	William Character Annual Control	1
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CSE (Cyber Security) BoS - 16-12-2023 - Narasaraopeta Engineering College - Req. Dr. VVAS Lakshmi HoD CSE (AIML, CS, DS) <aicsdshod@nrtec.in> Mon 12/4/2023 4:56 PM

To:chakravathy.cse@jntukucev.ac.in <chakravathy.cse@jntukucev.ac.in>;tbr@iith.ac.in <tbr/>tbr@iith.ac.in>;kiran\_cse@kluniversity.in <kiran cse@kluniversity.in>; lakshmideepthibapanapalli@gmail.com <lakshmideepthibapanapalli@gmail.com>; sudhakarp0101@gmail.com <sudhakarp0101@gmail.com>

Lattachments (303 KB) R20 CYPER SECURITY SYLLABUS BOOK.docx;

Dear Sir/Mam,

Following our recent phone conversation, we are pleased to inform you that the BoS meeting to finalize the R20 CSE (Cyber Security) 3rd and 4th Year course structure and syllabus has been scheduled for December 16, 2023. The meeting will take place online.

I am herewith attaching the proposed course structure and syllabus documents for your review. Your valuable suggestions and insights are crucial in ensuring the comprehensive quality of the syllabus.

### Meeting Details:

- Date: December 16, 2023.
- Tisme: 10.00 AM
- 3. Platform: Microsoft Teams

### Agenua:

- 1. Welcome and Introduction
- Cycrolew of R20 3rd and 4th Year Course Structure and Syllabus
- 3. Discussion and Incorporation of Suggestions
- 4. Approvat Process
- 5 Closing Remarks

Kindiy come prepared with your feedback and suggestions to make the meeting as productive as possible. Your presence and input are integral to the decision-making process, and we look forward to benefiting from your expertise during the meeting.

Thank you for your continued dedication to our organization.

Thanks & Kuga. 49, Dr.V V.A.S.Laksdrin

Professor & Holl Department of CSE (Cyber Security)

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MARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P.



### Members of Board of Studies

S.No.	Name	Designation	Remarks
	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman
2	Dr.ASin Chakravarthy	Professor Dept. of CSE, CEK, JNTUK	JNTUK Nominee
3	Dr.Bheemarjuna Reddy Tamma	Professor Dept. of CSE, IIT Hyderabad	Subject Expert
4	Dr.K.V D.Kiran	Professor Dept.of CSE, KL Deemed to be University	Subject Expert
5	Mr.P.Sudnakar	Technical Analyst, Coforge Limited, Bangalore	Industry Representative
6	Mrs.Lakshmi Deepthi	Senior RPA Developer, Tech Mahendra	Alumni Representative
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member
8	Dr.B.Jhansi Vazram	Professor & HoD  Dept. of IT & CSE(AI), NEC	Member
9	Dr.K., Laksiuni Nadh	Professor Dept. of CSE, NEC	Member
10	Dr.S.Siva Nageswara Rae	Professor Dept. of CSE, NEC	Member
11	DrM.Sireesha	Asso.Professor Dept. of CSE, NEC	Member

MARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 601 Guntur (Dist.), A.P.



### Minutes of the BoS Meeting

Dr. V.V.A.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the 3<sup>rd</sup> BoS meeting for (2<sup>nd</sup> BOS meeting for R20 regulations) III and IV Year of the CSE (Cyber Security) was held on 16-12-2023 @ 02.00 PM. in the department . The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

S.No.	Name	Designation	Category	Signature
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman	(aga)
2	Dr.ASN Chakravarthy	Professor Dept. of CSE, CEK, JNTUK	JNTUK Nominee	A10.2
3	Dr.Bheemarjuna Reddy Tair ina	Professor  Dept. of CSE, IIT  Hyderabad	Subject Expert	
4	Dr.K. V.D.Kiran	Professor  Dept.of CSE, KL  Deemed to be University	Subject Expert	
5	Mr.P.Seilisker	Technical Analyst, Coforge Limited, Bangalore	Industry Representative	
6	Mrs.Lakshmi Deepthi	Senior RPA Developer, Tech Mahendra	Alumni Representative	
7	Dr.S.N.Tirumala Rao	Professor & Head Dept. of CSE, NEC	Member	5.234mg
8	Dr.P Jhansi Vazram	Professor & HoD Dept. of IT & CSE(AI), NEC	Member	- 54.
9	Dr.K.Lakshmi Nadh	Professor Dept. of CSE, NEC	Member	quel
10	Dr.S.Siva Nageswara Rao	Professor Dept. of CSE, NEC	Member	B.
11	DrM.Sireesha	Asso.Professor Dept. of CSE, NEC	Member	ns.ml



PRINCIPAL
NARASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Bist.), A.P.



1. Welcome address by Chairman of BoS and introduction of members.

Changing of BoS, Dr.V.V.A.S.Lakshmi, HoD, CSE(DS), Principal Dr.M.Sreenivasa Kumar welcomed all the members of CSE(DS) BoS. She introduced JNTUK nominee Dr.A.S.N.Chakravarthy, Profesor, Department of CSE, UCEV, Subject Dr.T.Bheemarjuna Reddy, Professor in CSE, IIIT, Hyderabad, Subject Experts Dr.J. V.D. Flynn, Professor, Department of CSE, KLU Deemed to be University, Industry Expert Mr. P. Sadbakar, Technical Analyst, Coforge Ltd., Alumni Member Mrs. K. Lakshmi Decothi Senior RPA Developer, TechMahindra followed by Internal members Dr.S.H Tirumala Rao, Dr.B.Jhansi Vazram, Dr.K.Lakshmi Nadh, Dr.S.Siva Nageswara Rao and Dr.M.Sizeesha. The agenda for BoS meeting was read and the discussion is open for indicational author deliberations.

2. Discussion on course structure & syllabus for B.Tech. CSE (Cyber Security) 22 batch III and IV Vent

Pos members have appreciated the structure and syllabus in general. After thorough deliberation the Foard of Studies (BoS) members engaged in a discussion on the R20 Course Structure and Syllabus for the III & IV years of the B.Tech. CSE (Cyber Security). During this discussed the PoS members shared their perspectives and recommendations on the aforeme tioned course structure and syllabus. The following suggestions, amendments, and recommendations were put forth by the board members.

- (a) Lors does Pets Analytics & Visualization in III Year I Semester.
- 3. Finalization of syllabus along with incorporation of recommendations and suggestions for B, Toth. CET (Cyber Security) III and IV Year from the academic year 2024-25:

Based on the aforementioned suggestions, the entire Board of Studies (BoS) has granted approval to the Louise Structure and syllabus for R20 B.Tech. CSE (Cyber Security) for the III

& IV years.

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NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)



4. Same rizing the minutes of meeting:

After also selon with BoS members, the changes in the syllabus listed in agenda 2 have been named anon and will be incorporated in the syllabus proposed for III and IV Year students of 2022 batch (E20 regulations).

5. Applied a of he course structure & syllabus:

The microsed course structure and syllabus was approved by BoS.

6. Vote of thanks by Chairman of BoS

The Clairperson, Dr.V.V.A.S.Lakshmi, proposed the vote of thanks. She individually thanked and for their committed participation in the discussion and for their valuable input to the course. She then thanked industry experts and other members of the BoS for their valuable accolvement in the syllabus discussion.

BoS-CSE (CS)

NGINEERING COLLEGE

NARASARA@PET - 522 601

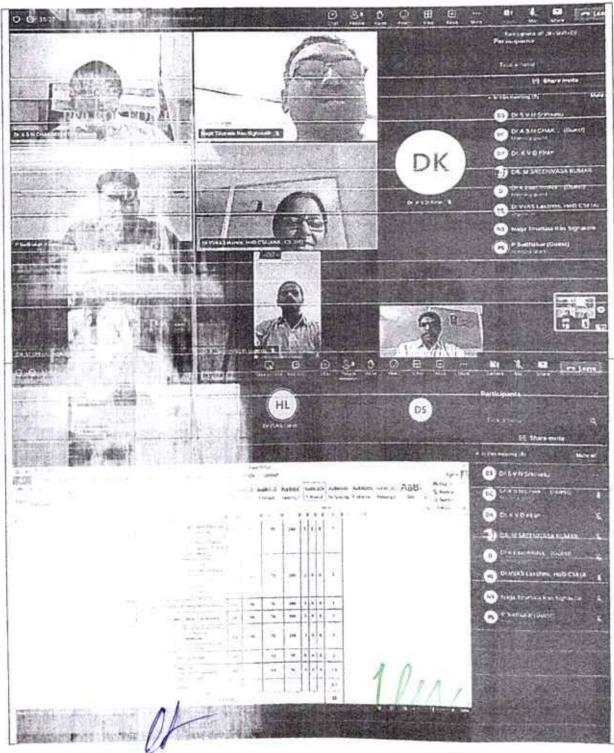
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(AUTONOMOUS)

DEPARTMENT OF CSE (CYBER SECURITY)

### R26 BOS FOR HI & IV YEAR COURSE STRUCTURE AND SYLLABUS





PRINCIPAL
WARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)





### Request to attend for BoS Meeting

From Dr. VVAS Lakshmi, HoD CSE (AIML, CS, DS) <aicsdshod@nrtec.in>

Date Mon 9/25/2023 10:00 AM

To ckm@cse.iith.ac.in <ckm@cse.iith.ac.in>

### Good Morning Sir,

With reference to subject cited above, we would like to inform you that CSE (Cyber Security) is conducting Online BoS meeting on 26-09-2023 @ 11AM for approval of syllabus of B.Tech. I Year. Hence, we request you to act as BoS Member for the Department of CSE (Cyber Security) and give us your valuable suggestions. Virtual meeting link will be sent to your email.

### https://teams.microsoft.com/l/meetup-

join/19%3ameeting\_OTMxY2EyNjEtZDgxZS00NjQ2LTk4YzUtZWVkNmFjNjU2ZmYy%40thread.v2/0?context=%7b%22Tid%22%3a%2276254ace-27ad-489b-9f92-

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### Join conversation

teams\_microsoft.com

Dr.V.V.A.S.Lakshmi
Professor & HoD
Department of CSE (AI&ML, CS, DS)
Narasaraopeta Engineering College (Autonomous)
Narasaraopet.

AUTONOMOUS)



(AUTONOMOUS)

DEPARTMENT OF CSE (CYBER SECURITY)

1st BOARD OF STUDIES (BOS) MEETING ON 26-09-2023

26th September, 2023

### AGENDA

- Welcome by the Chairman.
- Discussion on R20-Syllabus of I B.Tech. CSE (Cyber Security).
- General suggestions by members.
- Any other information with the permission of the Chairman.
- Vote of thanks

O P

NARASARAOPET - 522 601
Guntur (Dist.), A.P.

Chairman, BOS (CS) (Dr.V.V.A.S.Lakshmi)



(AUTONOMOUS)

### DEPARTMENT OF CSE (CYBER SECURITY)

26th Sep, 2023

### Minutes of the 1ST Board of Studies (BoS) Meeting for R23 Regulation I B.Tech I Year.

Dr. V.V.A.S.Lakshmi, Chairman, Board of Studies chaired the online meeting and welcomed all the members to the First Board of Studies meeting (R23 Regulation) in the department of CSE (CYBER SECURITY). The discussion on the items mentioned in the Board of Studies meeting agenda was taken up and the following resolutions mentioned in the subsequent paragraphs were passed by the external and internal BOS members.

### MEMBERS PRESENT

S.No.	Name	Designation	Remarks	Signature
1	Dr.V.V.A.S.Lakshmi	Professor & Head	Chairman	lova
2	Dr.ASN Chakravarthy	Professor	JNTUK Nominee	
3	Dr.Bheemarjuna Reddy Tamma	Professor	Subject Expert	
4	Dr.K.V.D.Kiran	Professor	Subject Expert	
5	Mr.P.Sudhakar	Technical Analyst, Coforge Limited, Bangalore	Industry Representative	
6	Mrs.Lakshmi Deepthi	Senior RPA Developer, Tech Mahendra	Alumni Representative	
7	Dr.S.N.Tirumala Rao	Professor & Head	Member	CP.
8	Dr.B.Jhansi Vazram	Professor	Member	res
9	Dr.K.Lakshmi Nadh	Professor	Member	Klind
10	Dr.S.Siva Nageswara Rao	Professor	Member	9
11	Dr.M.Sireesha	Assoc.Professor	Member	8

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Meeting title 1. Summary

Attended participants Start time

End time

Meeting duration

Average attendance time

CSE (CYBER SECURITY) BoS - I YEAR R23

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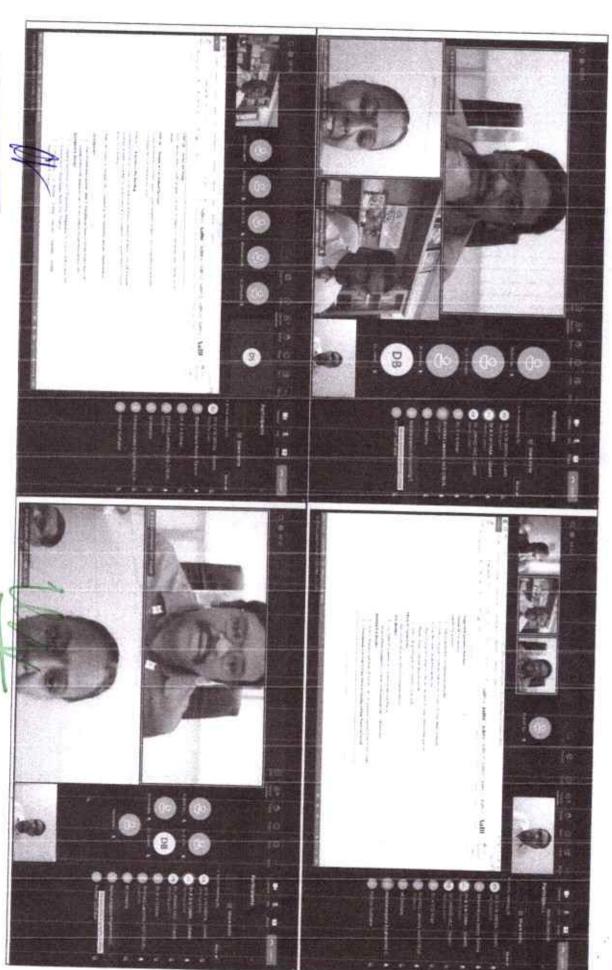
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PRINCIPAL
NAHASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

Website: www.jntuk.edu.in E-mail: registrar@jntuk.edu.in



Phone: Off: 0884-2300900

Fax: 0884-2300901

### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh, India (Established by A.P Act.30 of 2008)

Letter No. DAP/NEC(47)/BoS/2024

Date: 14.06.2024

Dr. L. SUMALATHA

M. Tech., Ph.D.,

REGISTRAR

To The Principal Narasaraopeta Engineering College Narasaraopet

Palnadu District.

Sir,

Sub: JNTU Kakinada - Academic Planning - Board of Studies (BoS) Members to

"Narasaraopeta Engineering College, (CC:47), (Autonomous), Narasaraopet,

Palnadu District" - Reg.

Ref: Note orders of the Vice-Chancellor, JNTUK, Kakinada dated 22.03.2024.

With reference cited above, the Hon'ble Vice-Chancellor JNTUK, Kakinada is pleased to nominate the following members for Board of Studies (BoS) of "Narasaraopeta Engineering College, (CC:47), (Autonomous), Narasaraopet, Palnadu District", for three academic years i.e. 2024-25, 2025-26 and 2026-27.

S. No.	Name of the Department	Name of the BoS Members
1	Civil Engineering	Prof. V. Lakshmi Professor, CE Department UCEK, JNTUK, Kakinada
2	EEE Department	Prof. K. Ravindra Professor, EEE Department UCEK, JNTUK, Kakinada
3	Mechanical Engineering	Prof. A. Gopala Krishna Professor, ME Department UCEK, JNTUK, Kakinada
4	ECE Department	Prof. B. T. Krishna Professor, ECE Department UCEK, JNTUK, Kakinada
5	CSE Department	Prof. N. Ramakrishnaiah Professor, CSE Department UCEK, JNTUK, Kakinada
6	LT Department	Prof. O. Srinivasa Rao Professor, CSE Department UCEK, JNTUK, Kakinada
7	ESE (Artificial/Intelligence)	Prof. O. Shhivasa Rao MHASARAPROFESSA, COSE DEPARTMENT COLOR, PANTUK, Kakinada
-	TO THE	NARASARAOPE 1 - 522 601 Guntur (Dist.), A.P.

8	CSE (Artificial Intelligence and Machine Learning)	Prof. D. Haritha Professor, CSE Department UCEK, JNTUK, Kakinada
9	CSE (Data Science)	Prof. MHM. Krishna Prasad Professor, CSE Department UCEK, JNTUK, Kakinada
10	CSE (Cyber Security)	Prof. ASN. Chakravarthy Professor, CSE Department UCEK, JNTUK, Kakinada
11	MBA Department	Prof. A. Krishna Mohan Professor and Director, SMS JNTUK, Kakinada
12	MCA Department	Prof. D. Haritha Professor, CSE Department UCEK, JNTUK, Kakinada
13	English Department	Dr. K. Madhavi Reddy Professor, English Department Andhra University, Visakhapatnam
14	Mathematics Department	Prof. K. Sobhan Babu Professor, Mathematics Department UCEN, JNTUK
15	Environmental Science	Dr. P. Brahmaji Rao Associate Professor and HoD Dept., of Environmental Sciences Acharya Nagarjuna University Guntur District

Yours Sincerely,

REGISTRAR REGISTRAR

J.N.T. University Kakinada Kakinada-533003

Copy to all the above Members

Copy to the Secretary to the Honorable Vice Chancellor, JNTU Kakinada

Copy to the Director, Academic Planning, JNTU Kakinada.

... ANA SANA OPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P.

### NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

### DEPARTMENT OF BASIC SCIENCES AND HUMANITIES (MATHEMATICS)

### EXTERNAL BOARD OF STUDIES (BoS) MEETING OF MATHEMATICS

### R23 REGULATION - AY 2023-24

Date: 16th September 2023

### AGENDA OF THE MEETING:

- Welcoming the distinguished 'Members of the Board of Studies for the BOS meeting by the Head of the Department.
- Review/Approval of the academic regulation for the UG Program.
- Review/Approval of the detailed syllabi of the mathematics subject for UG B.Tech.
- Any other suggestions/advice to the Department.
- · Vote of Thanks

### MINUTES OF BOARD OF STUDIES MEETING:

- The meeting was held at the Department of BS&H, NEC on 16<sup>th</sup> September 2023 at 2:00 PM chaired by Dr Shaik Mohiddin Shaw, Chairman, BoS Mathematics, extending a formal welcome to the Dr.G.V.R.Deekshitulu, Professor & Head, Department of Mathematics, UCEK, JNTUK, Kakinada; Prof. Dr. Bhavanari Satyanarayana, Professor Department of Mathematics, Achrya Nagarjuna University, Guntur and Dr.Phani Kumar, Associate Professor, Department of Mathematics, VIT-AP, Amaravathi, the Principal, and the Head of the Department, BS&H.
- The BoS Chairman informed about the Syllabus of Mathematics courses for 1.B. Tech., I&II Semesters of R-23 regulation.
- The BoS reviewed the JNTUK- Kakinada R23 Regulations and Course Structure related to 'Linear Algebra & Calculus' and 'Differential Equations & Vector Calculus' for the R-23 regulation of NEC, in the light of uniformity of syllabus for autonomous colleges under APSCHE and JNTUK R23 Regulations.
- The committee underlined the need for contemporary topics which can enhance the mathematical skills of students and insisted that the topics should connect with the students.
- Item 1: Linear Algebra & Calculus (common to all branches) theory course which is offered in First Year First Semester of B.Tech Programme.
- Resolution: It is unanimously resolved to follow JNTUK- Kakinada R23 syllabus for the subject Linear Algebra & Calculus with minor changes.

Page 1 of 2

WARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 6#1

Guntur (Dist.), A.P.



- Introduction of Applications in Unit-1 (L-C-R-Circuits)

  Euler's theorem for homogeneous functions in Unit-IV
- 2: Differential Equations & Vector Calculus (common to all branches) theory which is offered in First Year Second Semester of B.Tech Programme.
- Resolution: It is unanimously resolved to follow JNTUK- Kakinada R23 syllabus for the subject Differential Equations & Vector Calculus with minor changes.
  - Addition of non-homogeneous first order partial differential equations in Unit-III
  - Addition of Scalar Potential, Solenoid, Irrotational topic in Unit-IV

The meeting was concluded with the Vote of Thanks by HoD at 3:00 PM.

5.50	Name	Designation	Signature
	Dr. Shaik Mohiddin Shaw	Chairman	He moldin don
2	Prof. Dr. G. V. R. Deckshitulu	University Nominee and External BoS Member	Ochro mi
3	Prof.Dr.Bhavanari Satyanarayana	Subject Expert and External BoS Member	Ph-salyawarayana
*	Dr. Phani Kumar	Subject Expert and External BoS Member	ph.
3	Dr. G. Dharmaiah	Member	A
	Dr.R. Mohana Ramana	Member	ko.
	Dr.Ch. Maheswari	Member	chy
*	Dr N. Ravi Babu	Member	Done

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WANASARADPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P. Page 2 of 2



### DEPARTMENT OF CHEMISTRY BOARD OF STUDIES (BoS) MEETING ON 19-09-2023 R23 REGULATION - A.Y. 2023-24

### AGENDA OF THE MEETING:

- Welcoming the distinguished 'Members of the Board of Studies for the BoS meeting by the Chairman, BoS, NEC.
- Syllabus A.Y 2023-24.
- Review of the JNTUK- Kakinada R23 Course Structure of 1 B. Tech Program.
- Review of the JNTUK- Kakinada R23 detailed syllabi of 'Chemistry' and 'Engineering Chemistry' and APSCHE guidelines for R23 curriculum.
- · General suggestions by the members.
- Vote of Thanks.

S.No	Name	Designation	Signature
1	Dr. Y. Lakshman Kumar	Chairman	Y. Lobshmonler
2	Dr. S. Satyaveni	University Nominee	29
3	Dr. M.L.N. Achari	Member of Nominee 1	Mwoh
4	Dr.Ch. Ramakrishna	Member of Nominee 2	Or Man
5	Dr .P. N. V. V.L. Pramilarani	Member	B 6 18:12
6	Dr. T. Anusha	Member	T-Aauly

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Page 1 of

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...ANASAHADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.



### Resolutions

The Board of studies of Physics department is conducted in Online mode on 16-09-2023 at 2.00PM. The following members participated in the meeting.

Chairman: Dr.T.Anjaneyulu University Nominee: Dr.M.Rami Reddy Member of Nominee1: Dr.K.Surendranath Member of Nominee2: Dr.Sk.Mahamuda

Member1: Dr.K. Neeraja Member2: Dr. N. Giridhar Babu Member3: Dr. V. Poli Reddy

### Minutes of Meeting

To finalize the Engineering Physics Syllabus of both theory and lab as per 2023 Regulation, the following modifications are recommended by the committee to the original rough draft.

- A common syllabus for all branches has been formulated to fulfill the norms proposed by AICTE and JNTUK
- The committee members accepted to replace Dielectric materials from Unit-III by Superconductivity
- 3. The committee members suggested to include "Fremi Energy "Topic in Unit-IV.
- The committee members accepted to introduce Smart materials in Unit-V
   Finally the revised syllabus has been duly accepted by the members and recommended to accept it.

	Name	Position	Signature
1	Dr.T.Anjaneyulu	Chairman	exw.
2	Dr.M.Rami Reddy	University Nominee	wirey
3	Dr.K.Surendranath	Member of Nominee1	demos
4	Dr.Sk.Mahamuda	Member of Nominee2	St Schemuda
5	Dr.K.Neeraja	Member1	OF STATE OF
6	Dr.N.Giridhar Babu	Member2	1. Colle
7	Dr.V.Poli Reddy	Member3	12

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### NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

Kotappakonda Road, Yellamanda (P.O.), NARASARAOPET - 522 601, Guntur Dist., A.P.

Sponsored by Gayatri Educational Development Society, Narasaraopet.

Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada. Code: 47

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@ 08647-239903 & 08647-239902 (Fax)

Visit us at : www.nrtec.ac.in

e-mail: principal@nrtec.ac.in

### Resolutions

The Board of Studies of English department is conducted in online mode on 20-9-2023 at 3.00 PM. The following members participated in the meeting.

Chairman	Dr. K. Ponnari Lakshmi
University Nominee	Dr.Soumya Jose
Member Nominee 1	Dr. E. Dileep
Member Nominee 2	Dr. A. Sharada
Member1	Dr. V. Aruna
Member2	Z. Mohana Rao

### Minutes of Meeting

To finalize the Communicative English Syllabus of both Theory and Lab as per 2023 Regulation, the following modifications are recommended by the committee to the original rough draft.

- A common syllabus for all branches has been formulated to fulfill the norms proposed by AICTE and JNTUK.
- The committee members suggested to change the Course Outcomes as they are not clear. They should be carefully reframed and reworded to provide clarity on the outcomes expected.
- 3. The committee members suggested that it is better to adapt the communicative approach for teaching English even while using the textbook.
- 4. The committee members suggested that the focus should be more on developing spoken and written proficiency rather than on accuracy, since students are still at first year level.

Finally the revised syllabus has been duly accepted by the members

S.No	Name	Position	Signature
1	Dr. K. Ponnari Lakshmi	Chairman	Kalabel
2	Dr. Soumya Jose	University Nominee	88.
3	Dr. E. Dileep	Member Nominee1	2 P
4	Dr. A. Sharada	Member Nominee2	Study
5	Dr. V. Aruna	Memberl	N. Arm
6	Z. Mohana Rao	Member2	AWARANTEERING COLLEG
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e-mail: principal@nrtec.ac.in

### Resolutions

The Board of Studies of English department is conducted in online mode on 20-9-2023 at 3.00 PM. The following members participated in the meeting.

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University Nominee	Dr.Soumya Jose
Member Nominee 1	Dr. E. Dileep
Member Nominee 2	Dr. A. Sharada
Member1	Dr. V. Aruna
Member2	Z. Mohana Rao

### Minutes of Meeting

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S.No	Name	Position	Signature
1	Dr. K. Ponnari Lakshmi	Chairman	Kaladel
2	Dr. Soumya Jose	University Nominee	88.
3	Dr. E. Dileep	Member Nominee1	S. D. R
4	Dr. A. Sharada	Member Nominee2	a huan
5	Dr. V. Aruna	Member1	N. Mila
6	Z. Mohana Rao	Member2	Made



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ADASAKADPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NA Cuntur (Dist.), A.P.

### NARASARA OPETA ENGINEERING COLLEGE

### DEPARTMENT OF BASIC SCIENCES AND HUMANITIES (MATHEMATICS) EXTERNAL BOARD OF STUDIES (BoS) MEETING OF MATHEMATICS

### R23 REGULATION - AY 2023-24

Date: 16th September 2023

### AGENDA OF THE MEETING:

- Welcoming the distinguished 'Members of the Board of Studies for the BOS meeting by the Head of the Department.
- Review/Approval of the academic regulation for the UG Program.
- Review/Approval of the detailed syllabi of the mathematics subject for UG B. Tech.
- Any other suggestions/advice to the Department.
- · Vote of Thanks

### MINUTES OF BOARD OF STUDIES MEETING:

- The meeting was held at the Department of BS&H, NEC on 16<sup>th</sup> September 2023 at 2:00 PM chaired by Dr Shaik Mohiddin Shaw, Chairman, BoS Mathematics, extending a formal welcome to the Dr.G.V.R.Deekshitulu, Professor & Head, Department of Mathematics, UCEK, JNTUK, Kakinada; Prof. Dr. Bhavanari Satyanarayana, Professor Department of Mathematics, Achrya Nagarjuna University, Guntur and Dr.Phani Kumar, Associate Professor, Department of Mathematics, VIT-AP, Amaravathi, the Principal, and the Head of the Department, BS&H.
- The BoS Chairman informed about the Syllabus of Mathematics courses for I.B.Tech., I&II Semesters of R-23 regulation.
- The BoS reviewed the JNTUK- Kakinada R23 Regulations and Course Structure related to 'Linear Algebra & Calculus' and 'Differential Equations & Vector Calculus' for the R-23 regulation of NEC, in the light of uniformity of syllabus for autonomous colleges under APSCHE and JNTUK R23 Regulations.
- The committee underlined the need for contemporary topics which can enhance the
  mathematical skills of students and insisted that the topics should connect with the
  students.
- Item 1: Linear Algebra & Calculus (common to all branches) theory course which is
  offered in First Year First Semester of B. Tech Programme.
- Resolution: It is unanimously resolved to follow JNTUK- Kakinada R23 syllabus for the subject Linear Algebra & Calculus with minor changes.

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Page 1 of 2

NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

- (i) Introduction of Applications in Unit-1 (L-C-R-Circuits)
- (ii) Euler's theorem for homogeneous functions in Unit-IV
- Item 2: Differential Equations & Vector Calculus (common to all branches) theory course which is offered in First Year Second Semester of B.Tech Programme.
- Resolution: It is unanimously resolved to follow JNTUK- Kakinada R23 syllabus for the subject Differential Equations & Vector Calculus with minor changes.
  - (i) Addition of non-homogeneous first order partial differential equations in Unit-III
  - (ii) Addition of Scalar Potential, Solenoid, Irrotational topic in Unit-IV

The meeting was concluded with the Vote of Thanks by HoD at 3:00 PM.

S.No	Name	Designation	Signature
1	Dr. Shaik Mohiddin Shaw	Chairman	He moldin dor
2	Prof Dr G V R Deekshitulu	University Nominee and External BoS Member	Ochro mi
3	Prof. Dr. Bhavanari Satyanarayana	Subject Expert and External BoS Member	Pan-Sahyawarayana
4	Dr. Phani Kumar	Subject Expert and External BoS Member	Phi
5	Dr. G. Dharmaiah	Member	A
6	Dr.R.Mohana Ramana	Member	pr.
7	Dr Ch. Maheswari	Member	chy
8	Dr.N. Ravi Babu	Member	202

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Page 2 of 2



(AUTONOMOUS)

### Resolutions

The Board of studies of Physics department is conducted in Online mode on 16-09-2023 at 2.00PM. The following members participated in the meeting.

Chairman: Dr T. Anjaneyulu University Nominee: Dr.M.Rami Reddy Member of Nominee1: Dr.K. Surendranath Member of Nominee2: Dr.Sk.Mahamuda

Member1: Dr.K.Neeraja Member2: Dr.N.Giridhar Babu

Member3: Dr. V.Poli Reddy

### Minutes of Meeting

To finalize the Engineering Physics Syllabus of both theory and lab as per 2023 Regulation, the following modifications are recommended by the committee to the original rough draft.

- A common syllabus for all branches has been formulated to fulfill the norms proposed by AICTE and JNTUK
- The committee members accepted to replace Dielectric materials from Unit-III by Superconductivity
- 3. The committee members suggested to include "Fremi Energy "Topic in Unit-IV.
- The committee members accepted to introduce Smart materials in Unit-V
  Finally the revised syllabus has been duly accepted by the members and
  recommended to accept it.

S.No	Name	Position	Signature
1	Dr.T.Anjaneyulu	Chairman	exw.
2	Dr.M.Rami Reddy	University Nominee	wirey
3	Dr.K.Surendranath	Member of Nominee1	alfras
4	Dr.Sk.Mahamuda	Member of Nominee2	Sx Phanuda
5	Dr.K.Neeraja	Member1	OS.
6	Dr.N.Giridhar Babu	Member2	1. Colle
7	Dr.V.Poli Reddy	Member3	12

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PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)



### DEPARTMENT OF CHEMISTRY BOARD OF STUDIES (BoS) MEETING ON 19-09-2023 R23 REGULATION - A.Y. 2023-24

### AGENDA OF THE MEETING:

- Welcoming the distinguished 'Members of the Board of Studies for the BoS meeting by the Chairman, BoS, NEC.
- Syllabus A.Y 2023-24.
- Review of the JNTUK- Kakinada R23 Course Structure of I B. Tech Program.
- Review of the JNTUK- Kakinada R23 detailed syllabi of 'Chemistry' and 'Engineering Chemistry' and APSCHE guidelines for R23 curriculum.
- · General suggestions by the members.
- Vote of Thanks.

S.No	Name	Designation	Signature
1	Dr. Y. Lakshman Kumar	Chairman	Y. hebshwonder-
2	Dr. S. Satyaveni	University Nominee	24
3	Dr. M.L.N. Achari	Member of Nominee 1	Murch
4	Dr.Ch. Ramakrishna	Member of Nominee 2	a. M
5	Dr .P. N. V. V.L. Pramilarani	Member	B & 16: P
5	Dr. T. Anusha	Member	T-Axuily

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Page 1 of 9

WARASARAUPETA ENGINEERING COLLEGE (AUTONOMOUS)



### Resolutions

The Board of studies of chemistry department is conducted in Online mode on 19-09-2023 at 3:30PM. The following members participated in the meeting.

Dr. Y. Lakshman Kumar: Chairman

Dr. S. Satyaveni: University Nominee

Dr. M.L.N. Achari: Member of Nominee 1

Dr.Ch. Ramakrishna: Member of Nominee 2

Dr. P. N. V. V.L Pramilarani : Member

Dr. T. Anusha: Member

### Minutes of Meeting

- The committee underlined the need for contemporary topics which can modify/enhance
  the chemistry and engineering chemistry knowledge of students and insisted that the
  topics should connect with the students.
- Item 1: Chemistry (EEE, ECE, CSE, IT & allied branches) theory course which is
  offered in First Year First Semester/ Second semester of B.Tech Programme.
- Resolution: It is unanimously resolved to follow JNTUK- Kakinada R23 syllabus for the subject Chemistry with minor changes.
- Item 2: Engineering Chemistry (Civil and Mechanical branches) theory course which is
  offered in First Year Second Semester of B. Tech Programme.
- Resolution: It is unanimously resolved to follow JNTUK- Kakinada R23 syllabus for the subject Engineering chemistry with minor changes.

Page 2 of

CANASARADPETA ENGINEERING COLLEGE

NARASARAOPET - 522 601 Guntur (Dist.), A.P.

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