



# Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

Sponsored by the Bapatla Education Society

Approved by AICTE :: Affiliated to Acharya Nagarjuna University

Estd.1981

Dr.K.V.L.N.Acharyulu, M.Sc., M.Phil., Ph.D.,  
Associate Prof. & Head,  
Dept. of Mathematics,  
Bapatla Engineering College, Bapatla

Ref.: -BEC/BOS/Maths/2025/01

Date: April 12, 2021.


## Meeting agenda of BOS

It is my pleasure to invite you to the online meeting of Board of Studies in Mathematics which is to be scheduled on 17/04/2024 at 11.00 AM. The agenda is as follows

1. Discuss and finalize the syllabus of R24 regulations for II B.Tech courses  
Those are  
(i).24CB/CM/CE/CS/DS/EC/EE/IT/ME301: 'Probability & statistics' for all branches  
(ii).24CB401: 'Mathematical Foundations for Cyber Security' for CSE-Cyber Security branch.  
(iii).24DS401: 'Mathematical Foundations for Data Science' for CSE-Data Science branch.
2. Any other matter with the permission of the chair

Copy to

1. Dr.P. A.Lakshmi Narayana, Professor, Department of Mathematics, Indian Institute of Technology, Hyderabad,
2. Dr.N.Seshagiri Rao, Professor & Head, Vignan deemed to be University, Vadlamudi-522 213, Andhra Pradesh, India.
3. Dr. R.Srinivasa Rao, Professor, Department of Mathematics, University College of Science, Acharya Nagarjuna University-522510.
4. Dr.T.Ramalingeswara Rao, Senior Scientist, TCS, Hyderabad-500 085, India.
5. Dr.N.Phani Kumar, Professor & Head, Dept. of BSH, VITS, Hyderabad-500 085, India.
6. All the faculty members of the Department of MATHEMATICS

  
(Dr.K.V.L.N.Acharyulu),  
Associate Professor & Head,  
Dept. of Mathematics,  
Bapatla Engineering College,  
Bapatla.  
**Head, Department of Mathematics**  
**Bapatla Engineering College**  
**BAPATLA 522 102. A.P**



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Minutes of the Online meeting of Board of Studies in Mathematics held on 17-04-2025 (Thursday) from 11:00AM to 12.30PM, Department of Mathematics, Bapatla Engineering College, Bapatla.

*Members present for the meeting through Online (Microsoft Teams):*

1. **Dr.K.V.L.N.Acharyulu,**  
Associate Professor & Head,  
Department of Mathematics,  
BEC, Bapatla. Chairman
2. **Dr.P. A.Lakshmi Narayana,**  
Professor, Department of Mathematics,  
Indian Institute of Technology,  
Hyderabad. Member
3. **Dr. R.Srinivasa Rao,**  
Professor, Department of Mathematics,  
University College of Science,  
Acharya Nagarjuna University. Member
4. **Dr.N.Seshagiri Rao,**  
Professor & Head,  
Vignana Deemed to be University,  
Vadlamudi. Member
5. **Dr.T.Ramalingeswara Rao,**  
Senior Scientist,  
TCS,  
Hyderabad. Member
6. **Dr.N.Phani Kumar,**  
Professor & Head,  
Dept. of BSH,VITS,  
Hyderabad Member
7. **Dr. P.Vijaya Saradhi,**  
Professor, Department of Mathematics,  
BEC, Bapatla. Member
8. **Dr. T. Srinivasa Rao,**  
Associate Professor, Department of Mathematics,  
BEC, Bapatla. Member



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9. **Sri.N.Karunakar,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
10. **Dr.Noorbhasha Rafi,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
11. **Sri I. Pothuraju,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
12. **Smt.S.V.Vasavi,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
13. **Smt.K.Nagamani,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
14. **Miss I. Rajeswari,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
15. **Dr. Mothukuri Balaiah,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
16. **Smt.T.Vimala,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member
17. **Sri Md.Abdul Khader,**  
Assistant Professor, Department of Mathematics,  
BEC, Bapatla. Member



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18. Dr.G.Sambasiva Rao,

Assistant Professor, Department of Mathematics,  
BEC, Bapatla.

Member

19. Ms. K.Suneetha,

Assistant Professor, Department of Mathematics,  
BEC, Bapatla.

Member

*The following items were on the agenda for discussion:*

Discuss and finalize the syllabus of R24 regulations for II B.Tech courses those are

(i).24CB/CM/CE/CS/DS/EC/EE/IT/ME301: 'Probability & statistics' for all branches.

(ii).24CB401: 'Mathematical Foundations for Cyber Security' for CSE-Cyber Security branch.

(iii).24DS401: 'Mathematical Foundations for Data Science' for CSE-Data Science branch.

(iv).The First Year Mathematics courses - Linear Algebra & Ordinary Differential Equations (LAODE) and Numerical Methods and Advanced Calculus (NMAC)- have already been approved in the Common Board of Studies held on 20-07-2024.

(v) The Open Elective courses will be taken up for approval in the subsequent BOS meeting.

Chairman, BOS, after welcoming the members for the meeting, presented the details of the agenda to the members.

*The following resolutions were passed in the Board of Studies meeting:*

1. For Probability & Statistics (24CB/CE/CM/CS/DS/EC/EE/IT/ME 301) :

(i).It was recommended to incorporate the topic of Discrete Random Variables in Unit-1 and to remove Beta and Gamma distributions from the same unit for better alignment with course objectives.

(ii).It was advised to add titles for each unit (Units 1 to 4) to clearly convey the objectives of each unit.

(iii).It was suggested to include basic statistical concepts such as Arithmetic Mean, Median, and Mode in Unit-1 to help the students for better understanding.



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Based on the suggestions and the requirements of BOS members, the syllabus of **Probability & Statistics (24CB/CE/CM/CS/DS/EC/EE/IT/ME 301)** will be finalized and sent it to the BOS members for the approval through E-mail.

## 2. Mathematical Foundations for Data Science (24DS401):

It was recommended to include one or two real-life applications of Dynamic Programming Problems, particularly those relevant to the field of Data Science, to enhance practical understanding.

Based on the suggestions and the requirements of BOS members, the syllabus of **Mathematical Foundations for Data Science (24DS401)** will be finalized and sent it to the BOS members for the approval through E-mail.

## 3. Mathematical Foundations for Cyber Security(24CB401):

(i).It was advised to remove the topics related to Groups, Rings, and Finite Fields, considering their complexity and the academic level of second-year B.Tech students.

(ii).In place of the removed topics, it was suggested to introduce relevant topics from Number Theory that are more suitable for Cyber Security ensuring continuity with the existing syllabus.

Based on the suggestions and the requirements of BOS members, the syllabus of **Mathematical Foundations for Cyber Security (24CB401)** will be finalized and sent it to the BOS members for the approval through E-mail.

4. The chairman is authorized to finalize the model papers, paper setters and examiners for all courses of B. Tech Examinations.

The Chairman, BOS, thanked the members before concluding the meeting.

Chairman, Board of Studies &  
Head, Dept. of Mathematics, BEC  
Head, Department of Mathematics  
Bapatla Engineering College  
BAPATLA 522 102, A.P

Copy to:

The Principal, Bapatla Engineering College,  
Members, Board of Studies



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## Report on Action Taken:

Based on the resolutions passed on 17/04/2025, the following actions are taken.

Suggestions carried out and modifications done as per recommendations of BOS Members:

### **1. Probability & Statistics (24CB/CE/CM/CS/DS/EC/EE/IT/ME 301):**

(i). The topic of Discrete Random Variables, The Binomial Distribution, The Mean and Variance of a Probability Distribution The Poisson Approximation to the Binomial Distribution have been incorporated in Unit 1. Sections: 4.1, 4.2, 4.4 & 4.6 have been added.

(ii). Beta and Gamma distributions have been removed (Section: 5.7 & 5.8) from Unit 1 to ensure better alignment with the course objectives.

(iii). Titles have been added to Units 1 to 4 to clearly convey the objectives and scope of each unit.

(iv). The topic of Descriptive measures (Basic statistical concepts) such as Arithmetic Mean, Median, and Mode have been included in Unit 1 to aid foundational understanding for students. Section: 2.5 is added.

### **2. Mathematical Foundations for Data Science (24DS401):**

(i). Some real-life applications of Dynamic Programming problems, particularly those relevant to Data Science, have been incorporated to enhance practical understanding. Section-13.6 is added.

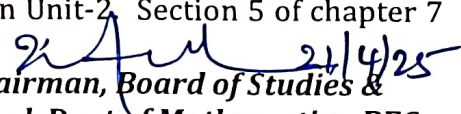
### **3. Mathematical Foundations for Cyber Security (24CB401):**

(i). Topics related to Groups, Rings, and Finite Fields have been removed, considering their complexity and the academic level of second-year B.Tech students. Sections: 4, 5, 6 & 7 of Unit-1 are removed.

(ii). In place of the removed abstract algebra topics, relevant topics from Number Theory from Unit-2 are included in Unit-1 ensuring continuity with the existing syllabus, more over Prime numbers, Fermat's and Euler's theorems, Euler Totient Function, Euler theorem topics are incorporated in Unit-1. Section: 1 & 2 of chapter 7 are transferred from unit-2 to Unit-1.

(iii). In view of enhancing the knowledge in Number Theory, the new topic Discrete Logarithms: The Powers of an Integer, Modulo  $n$ , Logarithms for Modular Arithmetic, Calculation of Discrete Logarithms has been incorporated in Unit-2. Section 5 of chapter 7 is added.

Copy to:  
The Principal, Bapatla Engineering College,  
Members, Board of Studies

  
Chairman, Board of Studies &  
Head, Dept. of Mathematics, BEC

Date: 21-04-2025

Head, Department of Mathematics  
Bapatla Engineering College  
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**BAPATLA ENGINEERING COLLEGE:: BAPATLA**  
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**PROBABILITY AND STATISTICS**

Common to all branches

II B. Tech. III Semester

24CB301/24CE301/24CS301/24CM301/24DS301/24EC301/24EE301/24IT301/24ME301

Lectures	:	2 Hours/Week	Tutorial	:	1 Hour/Week	Practical	:	0
CIE Marks	:	40	SEE Marks	:	60	Credits	:	3

**Pre-Requisite:** None

**Course Objectives:** Students will learn how to

- Employ discrete and continuous probability distributions to analyze and solve real world problems in Engineering fields.
- Estimate the point and interval estimators of the mean, variance and proportion for the given Sample data and apply Z-test, t-test to various real-life problems
- Apply various sample tests like F-test and  $\chi^2$  -test for decision making regarding the population based on sample data.
- Compute the level of correlation, the best fit curve to the given data by the method of least squares and also perform ANOVA arising in the field of engineering.

**Course Outcomes:** After studying this course, the students will be able to

CO-1	Apply discrete and continuous probability distributions to various problems arising in Engineering applications.
CO-2	Perform Test of Hypothesis for a population parameter for single sample.
CO-3	Perform Test of Hypothesis for population parameters for multiple samples.
CO-4	Interpret the results of correlation, regression and one way ANOVA for the given data.

**Mapping of Course Outcomes with Program Outcomes & Program Specific Outcomes**

CO	PO's												PSO's			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
CO-1	3	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-
CO-2	3	3	2	-	-	-	-	-	-	-	-	2	-	-	-	-
CO-3	3	3	2	-	-	-	-	-	-	-	-	2	-	-	-	-
CO-4	3	3	3	-	-	-	-	-	-	-	-	2	-	-	-	-

**UNIT-1**

(12 Hours)

**Descriptive measures, Random variables and Probability distributions:**

Arithmetic mean, median and mode, Random variables, Binomial distribution, The mean and variance of a probability distribution, Poisson approximation to the Binomial distribution, Continuous Random Variables, Normal Distribution, Normal Approximation to the Binomial Distribution, Uniform Distribution, Weibull distribution.  
(Sections 2.5, 4.1, 4.2, 4.4, 4.6, 5.1, 5.2, 5.3, 5.5, 5.9.)



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<b>UNIT-2</b>		(12 Hours)
<b>Sampling distributions and Inferences concerning one mean:</b> Populations and Samples, The sampling distribution of the mean ( $\sigma$ known), The sampling distribution of the mean ( $\sigma$ unknown), The sampling distribution of the variance, Point estimation, Interval estimation, Tests of Hypotheses, Null Hypothesis and Tests of hypotheses, Hypothesis concerning one mean. (Sections 6.1, 6.2, 6.3, 6.4, 7.1, 7.2, 7.4, 7.5, 7.6)		
<b>UNIT-3</b>		(12 Hours)
<b>Comparing two treatments and Inferences concerning variances:</b> Comparisons-Two independent large samples, Comparisons-Two independent small samples, matched pairs comparisons, the estimation of variances, Hypotheses concerning one variance, Hypotheses concerning two variances. (Sections 8.2, 8.3, 8.4, 9.1, 9.2, 9.3)		
<b>UNIT-4</b>		(12 Hours)
<b>Inferences concerning proportions, Regression Analysis and Analysis of variance:</b> Estimation of proportions, Hypotheses concerning one proportion, Hypotheses concerning two proportions, the method of least squares, curvilinear regression, multiple regression, correlation, some general principles, Completely Randomized Designs (One way ANOVA). (10.1, 10.2, 10.3, 11.1, 11.3, 11.4, 11.6, 12.1, 12.2)		
<b>Text Books :</b>	Miller & Freund's "Probability and Statistics for Engineers", Richard A. Johnson, 8 <sup>th</sup> Edition, PHI, 2011.	
<b>References :</b>	1. R.E Walpole, R.H. Myers & S.L. Myers 'Probability & Statistics for Engineers and Scientists', 6 <sup>th</sup> Edition, PHI. 2. Murray R Spiegel, John J. Schiller, R. AluSrinivasa, 'Probability & Statistics', Schaum's outline series.	

The syllabus has been modified in accordance with the valuable suggestions provided by the BoS members during the BoS meeting held on 17-04-2025 at 11:00 AM.

*P.V. Saradhi*  
(Dr. P. VIJAYA SARADHI)  
Professor, Dept. of Maths, BEC

*T. M. Balaiiah*  
(Dr. M. BALAIAH)  
P & S Subject Coordinator

*T. S. Rao*  
(Dr. T. SRINIVASA RAO)  
Associate Prof., Dept. of Maths, BEC

*K.V.L.N. Acharyulu*  
(Dr. K.V.L.N. ACHARYULU)  
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Bapatla Engineering College  
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**MATHEMATICAL FOUNDATIONS FOR CYBER SECURITY**

**II B. Tech. IV Semester**  
**24CB401**

Lectures	:	2 Hours/Week	Tutorial	:	1 Hour/Week	Practical	:	0
CIE Marks	:	40	SEE Marks	:	60	Credits	:	3

**Pre-Requisite:** None

**Course Objectives:** Students will learn how to

- Use Euclidean and extended Euclidean algorithms to find GCD of polynomials.
- Employ the Chinese Remainder Theorem for getting solutions of the congruences.
- Learn how codes in mathematics are used for error correction and data transmission.
- Construct substitution ciphers and transposition ciphers.

**Course Outcomes:** After studying this course, the students will be able to

CO-1	Apply Euclidean algorithm and extended Euclidean algorithm to find GCD of polynomials.
CO-2	Apply the Chinese Remainder Theorem for solving congruences.
CO-3	Utilize linear block codes for error detection and correction.
CO-4	Construct substitution ciphers and transposition ciphers.

**Mapping of Course Outcomes with Program Outcomes & Program Specific Outcomes**

CO	PO's												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1	3	3	2	-	-	-	-	-	-	-	-	2	-	-	-
CO-2	3	3	2	-	-	-	-	-	-	-	-	2	-	-	-
CO-3	3	3	2	-	-	-	-	-	-	-	-	2	-	-	-
CO-4	2	3	2	-	-	-	-	-	-	-	-	2	-	-	-

**UNIT-1**

(12 Hours)

**Basic Concepts in Number Theory & More Number Theory:**

Divisibility and The Division Algorithm, The Euclidean Algorithm: Greatest Common Divisor, Finding the Greatest Common Divisor, Modular Arithmetic: The Modulus, Properties of Congruences, Modular Arithmetic, Properties of Modular Arithmetic, Euclidean Algorithm Revisited, The Extended Euclidean Algorithm, Prime Numbers, Fermat's and Euler's Theorems: Fermat's Theorem, Euler's Totient Function, Euler's Theorem


(Sections 1 to 3 of Chapter 3 & Sections 1 to 2 of Chapter 7 in Textbook 1)




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UNIT-2		(12 Hours)
<b>More Number Theory(Continued):</b> Testing for Primality: Miller-Rabin Algorithm, A Deterministic Primality Algorithm, Distribution of Primes, The Chinese Remainder Theorem, Discrete Logarithms: The Powers of an Integer, Modulo n, Logarithms for Modular Arithmetic, Calculation of Discrete Logarithms (Sections 3 to 5 of Chapter 7 in Textbook 1)		
UNIT-3		(12 Hours)
<b>Coding Theory:</b> Introduction to error correcting codes, Basic definitions, Matrix description of Linear Block Codes, Equivalent Codes, Parity Check Matrix, Decoding of a Linear Block Code, Syndrome Decoding, Error Probability after Coding, Perfect Codes, Hamming Codes (Sections 3.1 to 3.10 of Chapter 3 in Textbook 2)		
UNIT-4		(12 Hours)
<b>Traditional Symmetric – Key Ciphers:</b> Introduction: Kerckhoff's Principle, Cryptanalysis, Categories of Traditional Ciphers, Substitution Ciphers: Monoalphabetic Ciphers, Polyalphabetic Ciphers, Transposition Ciphers: Keyless Transposition Ciphers, Keyed Transposition Cipher, Combining Two Approaches. (Sections: 3.1, 3.2, 3.3 of Text Book 3)		
<b>Text Books :</b>	<ol style="list-style-type: none"><li>1. Cryptography and Network Security, William Stallings, Pearson, 6<sup>th</sup> Edition, 2014</li><li>2. Information Theory Coding And Cryptography, Ranjan Bose, Tata McGraw-Hill, 4<sup>th</sup> Edition, 2005.</li><li>3. Cryptography &amp; Network Security, Behrouz A. Forouzan, Tata McGraw-Hill, 2010.</li></ol>	

The syllabus has been modified in accordance with the valuable suggestions provided by the BoS members during the BoS meeting held on 17-04-2025 at 11:00 AM.

  
(Dr. P. VIJAYA SARADHI)  
Professor, Dept. of Maths, BEC

  
(Dr. NOORBHASHA RAFI)  
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MATHEMATICAL FOUNDATIONS FOR DATA SCIENCE															
II B. Tech. IV Semester 24DS401															
Lectures	:	2 Hours/Week	Tutorial	:	1 Hour/Week	Practical	:	0							
CIE Marks	:	40	SEE Marks	:	60	Credits	:	3							
<b>Pre-Requisite:</b> None															
<b>Course Objectives:</b> Students will learn how to															
➤	Compute various measures of central tendency, dispersion, skewness, kurtosis and interpret them.														
➤	Learn about elementary nonparametric testing procedures and use them for analyzing real data for drawing statistical inferences and also are able to design, use and interpret control charts for both variables and attributes.														
➤	Model competitive real-world phenomena using concepts from game theory, analyze pure and mixed strategies														
➤	Select best strategy from various alternatives of decision making under uncertainty Conditions using different criterion for uncertainty and also can apply dynamic programming approach to real world problems wherever applicable														
<b>Course Outcomes:</b> After studying this course, the students will be able to															
CO-1	Analyze the whole idea on a frequency distribution with the help of measures of central tendency, measures of dispersion, skewness and kurtosis.														
CO-2	Adapt nonparametric testing procedures for drawing statistical inferences in data analyzing problems and Construct Quality control charts for variables and attributes.														
CO-3	Solve games with/without saddle points using algebraic method, graphical method and principle of dominance for achieving optimum best mixed strategies.														
CO-4	Utilize dynamic programming algorithm to solve real world problems and choose appropriate decision under uncertainty conditions														
<b>Mapping of Course Learning Outcomes with Program Outcomes &amp; Program Specific Outcomes</b>															
		PO's											PSO's		
CO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1	3	2	2	-	-	-	-	-	-	-	-	2	-	-	-
CO-2	3	2	3	-	-	-	-	-	-	-	-	2	-	-	-
CO-3	2	2	2	-	-	-	-	-	-	-	-	2	-	-	-
CO-4	2	2	2	-	-	-	-	-	-	-	-	2	-	-	-
<b>UNIT-1</b>															
														(12 Hours)	
<b>Descriptive Statistics:</b>															
<b>Measures of central tendency:</b> Arithmetic Mean, Median and Mode															
<b>Measures of dispersion:</b> Dispersion, Measures of Dispersion, Range, Quartile Deviation, Mean Deviation, Standard Deviation and Root Mean Square deviation, Moments, Skewness, Kurtosis.															
(Sections: 2.3, 2.5, 2.6, 2.7, 3.1, 3.3, 3.4, 3.5, 3.6, 3.7, 3.7.1, 3.7.2, 3.9, 3.9.1, 3.13, 3.14 of Text Book 1)															



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<b>UNIT-2</b>	(12 Hours)
<b>Non-Parametric Tests:</b> Introduction, The Sign Test, Rank-Sum Tests, Correlation based on Ranks, Tests of Randomness. <b>Statistical Quality Control:</b> Quality Control, Control Charts for Measurements, Control Charts for Attributes. (Sections: 14.1, 14.2, 14.3, 14.4, 14.5, 15.4, 15.5, 15.6 of Text Book 2)	
<b>UNIT-3</b>	(12 Hours)
<b>GAMES AND STRATEGIES:</b> Introduction; Two-person Zero –Sum Games; Some Basic Terms; The Maximin-Minimax Principle; Games Without Saddle Points-Mixed Strategies; Graphic Solution of $2 \times n$ and $m \times 2$ Games; Dominance Property. (Sections: 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7 of Text Book 3)	
<b>UNIT-4</b>	(12 Hours)
<b>Decision Analysis:</b> Introduction, Decision Making Problem, Decision-Making Process, Decision-Making Environment, Decisions Under Uncertainty. <b>DYNAMIC PROGRAMMING:</b> Introduction; The Recursive Equation Approach, Characteristics of Dynamic Programming; Dynamic Programming Algorithm, Some Applications. (Sections: 16.1, 16.2, 16.3, 16.4, 16.5, 13.1, 13.2, 13.3, 13.4 13.6 of Text Book 3)	
<b>Text Books :</b>	1. Fundamentals of Mathematical Statistics, S.C. Gupta and V.K. Kapoor, 10 <sup>th</sup> edition. 2. Probability and Statistics for Engineers, Richard A. Johnson, 8th edition, PHI. 3. Operations Research, Kanti Swaroop, P.K. Gupta, Manmohan, 13th edition, Sultan Chand & Sons. 2007.
<b>References :</b>	[1] 1. Probability & Statistics for Engineers and Scientists', R.E Walpole, R.H. Myers & S.L. Myers, 6th edition, PHI, [2] Operations Research, SD Sharma, Kedarnath Ramnath & Co, Meerut.

The syllabus has been modified in accordance with the valuable suggestions provided by the BoS members during the BoS meeting held on 17-04-2025 at 11:00 AM.

*T S Rao*  
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Associate Prof., Dept. of Maths, BEC

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(Dr. N. RAFI)

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Associate Prof. & Head, Dept. of Maths, BEC

**Head, Department of Mathematics**

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**BAPATLA 522 102, A.P**

*P.V. Saradhi*  
(Dr. P. VIJAYA SARADHI)

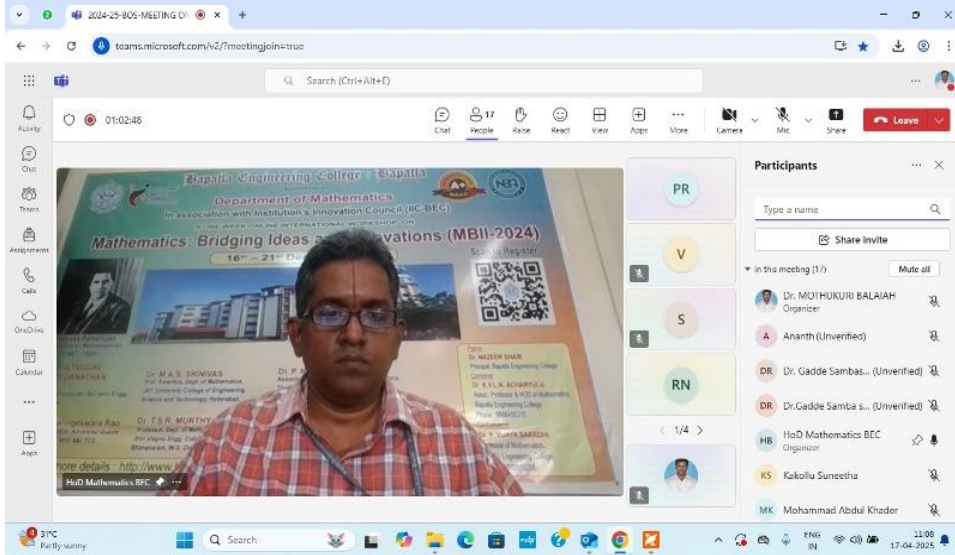
MFDS Subject Coordinator



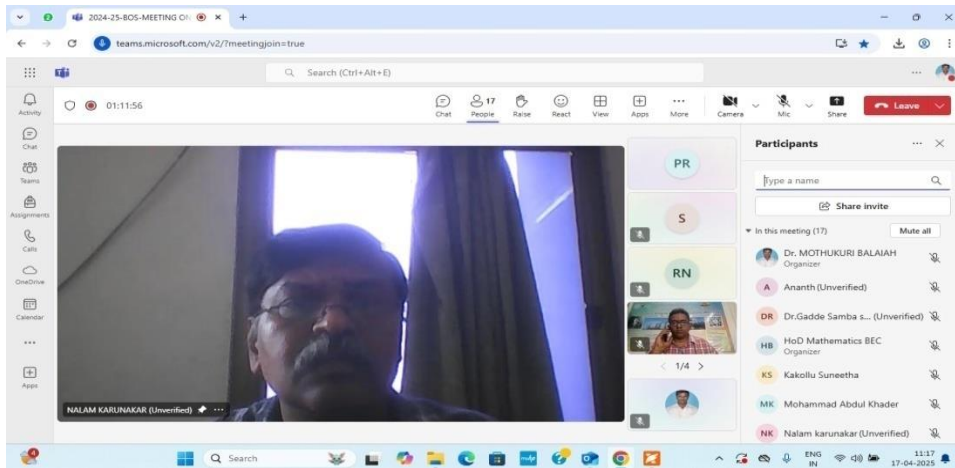
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DEPARTMENT OF MATHEMATICS**

**Photo Gallery of Minutes of Online BOS Meeting held on 17-04 2025 (Thursday)  
From 11 AM to 12.30 PM through Microsoft Teams with link:**

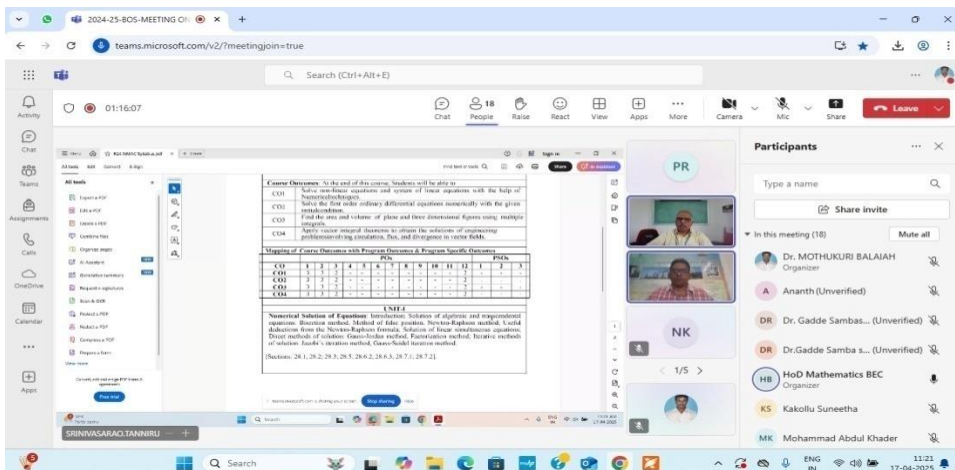
**<https://tinyurl.com/yv7r63tx>**



**Photo(1): Chairing the BOS Meeting by Dr. K.V.L.N.Acharyulu**



**Photo-(2): Presentation of Approved LAODE Syllabus by Sri N. Karunakar**



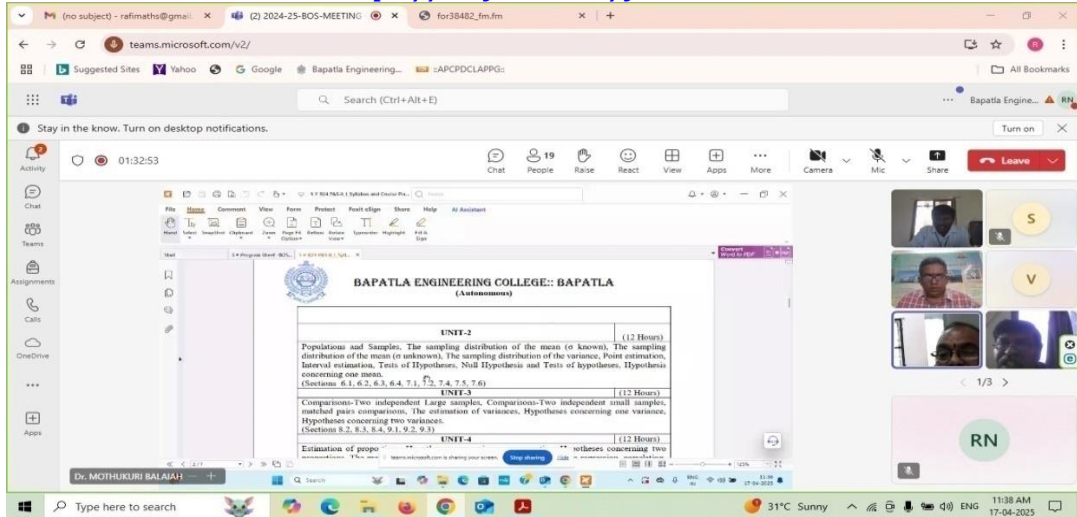
**Photo-(3): Presentation of NMAC Syllabus by Dr. T. Srinivasa Rao**



**BAPATLA ENGINEERING COLLEGE :: BAPATLA  
DEPARTMENT OF MATHEMATICS**

**Photo Gallery of Minutes of Online BOS Meeting held on 17-04 2025 (Thursday)  
From 11 AM to 12.30 PM through Microsoft Teams with link:**

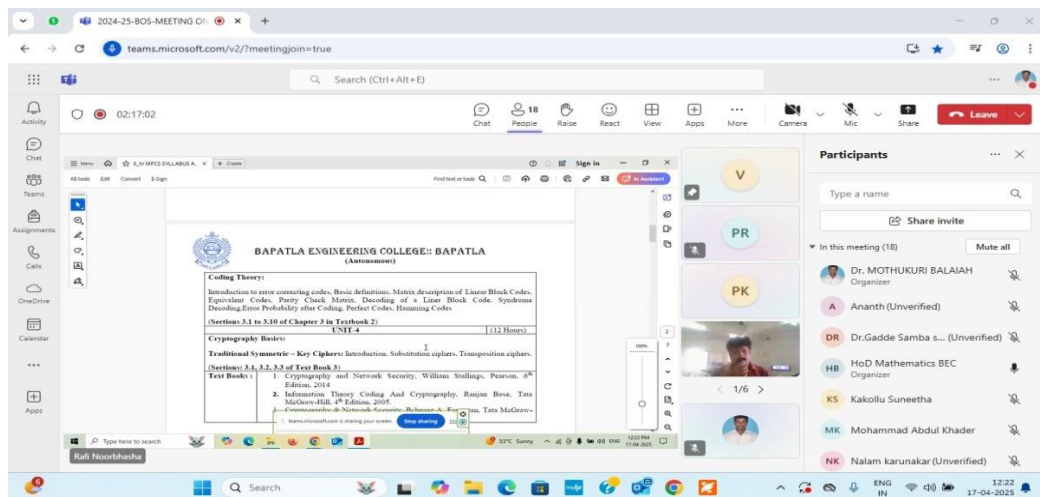
**<https://tinyurl.com/yv7r63tx>**



**Photo-(4): Presentation of Proposed P & S Syllabus by Dr. M. Balaiah**



**Photo-(5): Discussion among BOS Members**



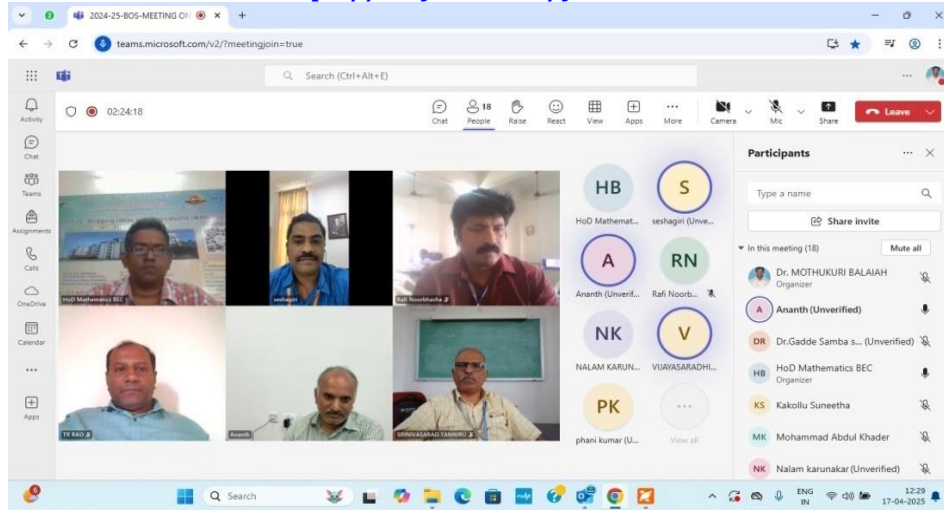
**Photo-(6): Presentation of Proposed MFCS Syllabus by Dr. Noorbhasha Rafi**



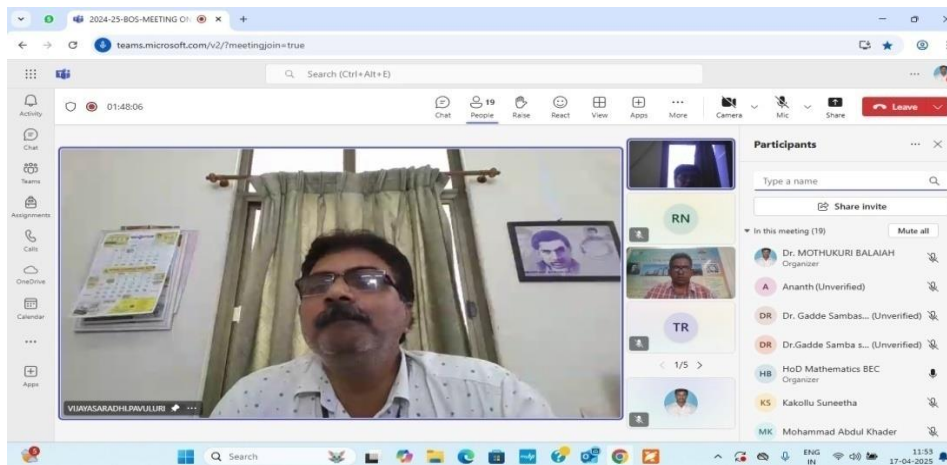
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**Photo Gallery of Minutes of Online BOS Meeting held on 17-04 2025 (Thursday)  
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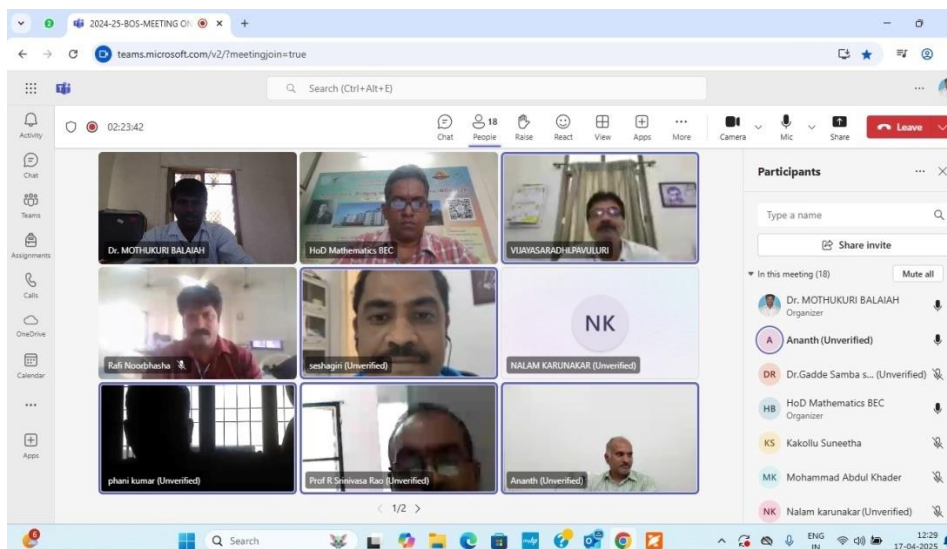
**<https://tinyurl.com/yv7r63tx>**



*Photo-(7): Discussion among BOS Members*



*Photo-(8): Presentation of Proposed MFDS Syllabus by Dr. P. Vijaya Saradhi*



*Photo-(9): Discussion among BOS Members*