



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

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Ref.No: LIET/MATHEMATICS/BoS-6/MoM/2026/4

Date: 30th April 2026

DEPARTMENT OF MATHEMATICS

MINUTES OF THE BOARD OF STUDIES MEETING - 6

Venue: Department of Mathematics, at 2:00 pm at Lords Institute of Engineering and Technology (A)
The meeting was conducted as per the schedule to discuss the agenda given below.

Members Present:

Subject: MATHEMATICS				
S. No.	Name	Designation	Category	Signature
1.	Prof. Mohammed Irshad Ali	Associate. Professor & HOD, Dept. of Mathematics, LIET	Chairperson	
Nominees of Osmania University, Hyderabad				
2.	Prof. N. Kishan	Professor, Department of Mathematics, Osmania University, Hyderabad	University Nominee	
Experts / Academicians from Outside the Parent University nominated by Academic Council				
3.	Dr. Afroz	Associate Professor, Department of Mathematics, Maulana Azad National University.	External Member	
4.	Dr. TVA Sastry	Associate Professor, Department of Mathematics, Keshav Memorial Institute of Technology, Hyderabad	External Member	
Representatives from R&D / Industry / Corporate Sector / Allied areas relating to placements				
5.	Mr.Hasan Zubair	Delivery Partner, Financial Services, IBM, India	Corporate Sector	
6.	Mr. Syed Shujauddin	Business Development Manager 'TATA Capital, Hyderabad	Alumni	
Faculty members from each specialization				
7.	Dr. Shaik. Mohammed Ali	Associate Professor in Mathematics, LIET	Internal Member	
8.	Dr.Masarath Jabeen	Associate Professor in Mathematics, LIET	Internal Member	
9.	Dr.Parvez Dar	Assistant Professor in Mathematics, LIET	Internal Member	
10.	Dr.Md Khalid	Assistant Professor in Mathematics, LIET	Internal Member	
11.	Mrs.Amtul Muneer	Assistant Professor in Mathematics, LIET	Internal Member	
12.	Mrs.Shazia Tahseen	Assistant Professor in Mathematics, LIET	Internal Member	
13.	Mrs. Bhanu Kumari Maddala	Assistant Professor in Mathematics, LIET	Internal Member	
14.	Mr. Saleem Yousuf Lone	Assistant Professor in Mathematics, LIET	Internal Member	
15.	Mrs. Afser Unnisa	Assistant Professor in Mathematics, LIET	Internal Member	
16.	Ms Amatul Bari Afiah	Assistant Professor in Mathematics, LIET	Internal Member	



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AGENDA:

- Approval to continue Detailed Course Syllabi of LR-26 B.E 1st Year for the academic year 2026-2027.
Course Name: Mathematics-I (Matrices and Calculus)
Course Name: Mathematics-II (Differential equations and Vector Calculus)
- Approval to continue Detailed Courses Syllabus of LR-26 B.E II Year for the academic year 2026-27.
Course Name: Mathematics-III (P&S and PDE,P&S)
- Approval to continue Detailed Course Syllabus of LR-26 B.E 3rd & 4th Year for the academic year 2026-27.
Course Name: Aptitude and Reasoning Skills Lab
- Ratification of Question Paper Setters, Examiners & Evaluators of B.E
- Suggestions on Innovative Teaching Methodologies.
- Suggestions on Research, Extension and other Academic Activities.

Permanent Invitees: Dr. Ravi Kishore Singh , Principal, LIET

Dr. J. Sasi Kiran, Dean 1stYear & Dean Planning and Coordination, LIET

Item No. 1: Introduction of BoS Members to the faculty and vice versa.

Deliberation: BoS Chairman Mathematics welcomed all the members of the Board of Studies, Principal and other faculty members to the meeting. This was followed by the discussion on the agenda points mentioned above:

- BoS Chairman introduced the BoS members to the respected Principal, LIET, and other faculty members of the department and also introduced the department faculty members to Honorable BoS members and further presented the brief college and department profile.
- BoS Chairman explained the salient features, curriculum analysis, and I year Mathematics courses syllabi to the members of the BoS.

Resolution: Noted and Approved

Item No. 2: Confirmation of last BOS minutes of meeting held on 21st June 2025 at 3:00 pm

Deliberation: BoS Chairman Presented the all Minutes of the last meeting in the presence of all members of 6thBoS and they verified the minutes and approved.

Resolution: Noted and Approved

Item No. 3: Action taken on the report of last BOS minutes of meeting held on 21st June 2025



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Deliberation: BOS Chairman presented the Action Plan taken on Minutes of last BOS meeting held on 21st June 2025 as mentioned in below tabular column.

S.No	Points Discussed	Action Plan Taken
1.	University Nominee suggested the following points: • He said there should not be any discrimination in weekly hours of M-I & M-2 even though both the subjects allocated different credits. • Problems should be solved according to the application connected to the particular stream. Problems merely should not be solved based on formula. • Syllabus can be minimized, it is not compulsory to follow the heavy syllabus of Osmania University that is framed keeping in view requirements of all the colleges.	All the Suggestions given by university Nominee have been taken into account. Equal hours are given to the M-1 & M-2. Faculties are solving problems pertaining to the branch only because strict guidance by the Dean first year. Some modifications are done in syllabus.
2.	External Member -1 suggested the following points: • Syllabus should be synchronized according to the industry needs. • Creating the environment in such a way that student should learn more and teacher act as facilitator. • Seek the explanation about the difference in credits of M-I and M-II.	All the Suggestions given by External Member -1 have been taken into consideration and implemented. Faculties are encouraged through FDPs on TLP. Credits have been assigned to maintain equilibrium in course structure.
3.	External Member-2 suggested the following points: • It is better to assign separate faculty for A & R skills lab • Suggested to increase number of questions in the worksheet of A & R skills lab. • It will be better to use assign subjects names and use of abbreviations instead of using M-III to avoid confusion.	Separate expert faculties are allocated for the A & R lab and the number of questions are increased in the worksheet of A&R lab. It is decided to assigned subject names for the new regulation syllabi.
4.	Alumni Member suggested the following points: • Syllabus should be precise and effective in engineering perspective. Corporate Sector nominee has suggested the following: • Suggested to set up R-soft lab or Python lab from first year onwards	Syllabus is framed very precise and application oriented according to the engineering perspective. Python theory subject and lab are being introduced for I and II semester of B.E first Year.



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Resolution: Noted and Approved

Item No. 4: Review and Finalization of course titles and syllabus of the B.E I-year, II-year (I & II Semester) and lab syllabus for III and Final Year under the department of Mathematics.

Deliberation:

- The Chairman BOS presented the I-Year I & II Semester Course Structure and Syllabus for Academic Year 2026-2027 for the approval of BOS Members that are Mathematics-I, Mathematics-II courses.
- The Chairman BOS presented the II-Year III & IV Semester Course Structure and Syllabus for Academic Year 2026-2027 for the approval of BOS Members that is Mathematics-III for CSE, CSE(AIML), CSD(DS), IT, AIML, ECE, CIVIL, MECH of LR-26 Regulation Courses were discussed.
- The Chairman BOS presented the II & III- Year V, VI & VII Semester Course Structure and Syllabus for Year 2026-27 for the approval of BOS Members that is Aptitude and Reasoning Skills lab for CSE, CSE(AIML), CSD(DS), IT, AIML, ECE, CIVIL, MECH of LR-26 Regulation Courses were discussed.
- Ratification of Question Paper Setters, Examiners & Evaluators of B.E I & II-Year I, II, III-Semester Question Paper Setters, Examiners & Evaluators names.

After a thorough deliberation, the following suggestions were put forwarded by the BOS Committee members.

1. University Nominee suggested the following points:
 - The Matrices chapter should be included in Mathematics instead of Mathematics II
 - Vector Calculus should be shifted to Mathematics II in Place of Numerical Techniques.
 - Special function should be incorporated into the curriculum in place of Numerical Techniques
 - The courses may be appropriately titled as:
 - M I as Matrices and Calculus
 - M II as Differential equations and Vector Calculus.
2. External Member -1 suggested the following points:
 - Mathematics I should commence with Matrices to make the course more accessible and student friendly.
 - An Introductory module on Probability should be included in Mathematics III (PDE and P&S)
3. External Member -2 suggested the following points:
 - The calculus of one variable should begin with the concept of limits to ensure a strong foundational understanding
4. Alumni suggested the following points:
 - The course structure should be designed to be easy to comprehend.
 - All topics should be framed considering the academic level and learning capacity of the students.
5. Corporate Sector nominee suggested the following points:
 - Greater emphasis should be placed on applied mathematics and real-world problem solving relevant to engineering applications.



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Resolution: The Members after thorough discussion approved to the proposed syllabi of the courses for the academic year 2026-2027 and the Course Titles of following Mathematical courses are: Aptitude and Reasoning skills lab for CSE, CSE(AIML), CSD(DS), IT, AIML, ECE, CIVIL, MECH of LR-26 and Mathematics-I (Matrices and Calculus) & Mathematics-II (Differential equations and Vector Calculus) for CSE, CSE(AIML), CSD(DS), IT, AIML, ECE, CIVIL, MECH of LR-26 Regulation Courses, Mathematics-III for CSE, CSE(AIML), CSD(DS), IT, AIML, ECE, CIVIL, MECH of LR-26 Regulation Courses and it is given in Annexure-I.

Item No. 5: Suggestions on Innovative teaching learning process, Evaluation, Research and development of Mathematics

Deliberation: BOS members suggested on Innovative teaching learning process, Evaluation, Research and Development of Mathematics Department, Awareness programs to publish research articles in Web of Science and Scopus Indexed Journals to be conducted.

Resolution: Noted and Approved

Dean-I Year honored the suggestions given by the BOS members and thanked all the members for accepting the invitation and attending the meeting and concluded the meeting.
BOS Chairman thanked all the members for the suggestions towards improvement.
BOS Chairman conveyed vote of thanks to all the BOS members for spending their valuable time in reviewing the course structures & syllabi, all the Deans and HODs of other departments, department faculty members for the support in designing course structures of UG.
He also thanked the Principal for continuous guidance and the Management for constant encouragement and support.
The meeting was concluded with the approval of University Nominee and consensus of all BOS Members

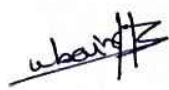

Prof. Mohammed Irshad Ali
Chairman - Board of Studies
Department of Mathematics
Lords Institute of Engineering and Technology[A]

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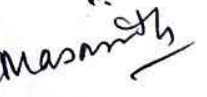
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ANNEXURE - I

APPROVED COURSE TITLES

S.No	Approved Course Title	Course Code	Programme / Branch
1.	MATHEMATICS-I (Matrices and Calculus)	U26MA101	I-Year B.E, I-SEM, CSE(AIML), IT, CSE, CIVIL, CSD AIML , EEE, MECH & ECE
2.	MATHEMATICS – II (Differential Equations and Vector Calculus)	U26MA201	I-Year B.E, II-SEM, CSE(AIML), IT, CSE, CIVIL, CSD AIML , EEE, MECH & ECE
3.	MATHEMATICS-III (Probability and Statistics)	U26MA301 U26MA401	II-Year B.E, III-SEM, CSE(AIML),IT, AIML & ECE II- Year B.E, IV-SEM, CSE , CSD
4.	MATHEMATICS – III (PDE, P&S)	U26MA302	II-Year B.E, III-SEM, CIVIL & MECH
5.	Aptitude and Reasoning Skills Lab	U26MA5L1 U26MA6L1 & U26MA7L1	III & IV- Year V,VI&VII Semester CSE(AIML), IT, CSE, CIVIL, CSD AIML , EEE, MECH & ECE

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DEPARTMENT OF MATHEMATICS

MINUTES OF THE BOARD OF STUDIES MEETINGS - 6

ANNEXURE I

Course Code	Course Title					Core/Elective	
U26MA101	MATHEMATICS-I (Matrices and Calculus)					Core	
Prerequisite	Contact Hours Per Week				CIE	SEE	Credits
	L	T	D	P			
–	3	1	–	–	40	60	4

Course Objectives: To enable the students to apply the knowledge of Mathematics in various engineering fields by making them to learn the following:

1. To study matrix algebra and its use in solving system of linear equations and in Solving eigen value problems
2. To introduce the concepts of functions of single variables, mean value theorems and curvature.
3. To introduce the concepts of functions of several variables and multiple integrals

Essential Course Outcomes: On completion of this course, students will get the ability to

1. Solve system of linear equations with the help of Matrices and solving Eigen value problems.
2. Explain and calculate the function of single variable, curvature, radius of curvature.
3. Determine the limit, continuity, partial derivatives, Jacobian for the functions of two and three variables and also the maxima and minima of function of several variables
4. Calculate double and triple integrals.
5. Analyze special functions Beta and Gamma and its applications.

Desirable/Advanced Course Outcomes

1. Differentiate and integrate multivariable functions to solve real-world problems involving gradients, tangents, and optimization.
2. Analyze and interpret vector fields using line, surface, and volume integrals, applying Green's, Stokes', and Divergence theorems in physics and engineering applications

Unit-I

Matrices: Rank of a matrix, Echelon form, System of linear equations, linearly dependence and independence of vectors, Linear transformation, Orthogonal transformation, Eigen values, Eigen vectors, Properties of eigen values, Diagonalization, Cayley - Hamilton theorem, Quadratic forms, Reduction of quadratic form to canonical form by orthogonal transformation, Nature of quadratic forms.

Unit-II

Calculus of one Variable: Function of single variable, Continuous function, Differentiable function, Rolle's theorem, Lagrange's, Cauchy's mean value theorems, Taylor's series, Maclaurin's Series (without proof), Problems on Verification of theorems, Curvature, Radius of curvature, Circle of curvature in Cartesian, Polar and Parametric form.



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Unit-III

Multivariable Calculus (Differentiation): Functions of two variables, Limits and continuity, Partial derivatives, Total differential and properties, Euler's theorem, Jacobian, Functional Dependence and functionally independent, Taylor's series of functions of two variables, Maximum and minimum values of functions of two variables, Lagrange's method of undetermined multipliers.

Unit-IV

Multivariable Calculus (Integration): Double integrals in Cartesian and Polar Coordinates, Change of order of integration, Change of Variables from Cartesian to plane polar coordinates, Triple integrals.

Unit-V

Special Function: Beta Functions, forms and properties, Gamma Functions, Properties, Relation Between Beta and Gamma Function, Evaluation of Improper integrals by using Beta and Gamma functions. Power Series solution of ODE in case of ordinary point, Classification of points.

Textbooks:

1. B.S. Grewal, "Higher Engineering Mathematics", Khanna publishers, 45th edition, 2026.
2. Erwin Kreyszig, "Advanced Engineering Mathematics", Wiley, 10th edition, 2023.
3. R.K. Jain & S.R.K. Iyengar, "Advanced Engineering Mathematics", Narosa Publications, 5th Edition, 2026.

Reference Books:

1. B.V. Ramana, "Higher Engineering Mathematics", Tata McGraw-Hill, 2018
2. N.P. Bali and Manish Goyal, "A text book of Engineering Mathematics", Laxmi Publications, latest edition.
3. H.K. Dass and Er. Rajnish Verma, "Higher Engineering Mathematics" S.Chand Publishing, 3rd edition, 2024

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Course Code	Course Title					Core/Elective	
U26MA201	MATHEMATICS-II (Differential Equations and Vector Calculus) (Common to all Branches)					Core	
Prerequisite	Contact Hours Per Week				CIE	SEE	Credits
-	L	T	D	P			
-	3	1	-	-	40	60	4
Course Objectives 1. To provide an over view of ordinary differential equations 2. To learn Laplace Transforms and its properties 3. To study vector differential and integral calculus Essential Course Outcomes The students will be able to 1. Discuss the methods for solving certain first order differential equations and insight into its applications. 2. Determine solution of linear higher order differential equations with constant coefficients. 3. Apply the concept of Laplace Transforms in improper integrals and to the solution of ordinary differential equations. 4. Interpret and apply the concepts of Vector differentiation, gradient, curl and divergence 5. Compute integrals over vectors and understand its conversion by using vector integral theorems. Desirable /Advanced Course Outcomes 1. Solve linear systems and Eigen value problems using matrix decomposition techniques and interpret their role in dynamic systems and stability analysis. 2. Construct and solve first and higher-order differential equations arising in engineering applications using integrating factors, variation of parameters, and reduction methods.							

Unit-I

Differential Equations of First Order: Exact differential equations, integrating factors, Linear differential equations, Bernoulli's differential equation, Riccati's Differential equation, Orthogonal trajectories of a given family of curves (Cartesian and polar), Newton's Law of Cooling.

Unit-II

Differential Equations of Higher Orders: Solutions of second and higher order linear homogeneous equations with constants coefficients, Method of reduction of order for the linear homogeneous second order differential equations with variable coefficients, Solutions of non-homogeneous linear differential equations, Method of variation of parameters.



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Unit-III

Laplace Transforms: Laplace Transforms, Inverse Laplace Transforms, Properties of Laplace Transforms and inverse Laplace Transforms, Convolution Theorem (without proof). Solution of ordinary Differential Equations using Laplace Transforms.

Unit-IV

Vector Differentiation: Scalar and vector fields, Gradient of a scalar field, Application of Gradient: Normal vector, Angle between normals and Surfaces. Directional derivative, Divergence and Curl of a vector field, Vector Identities.

Unit-V

Vector Integration: Line, Surface and Volume integrals, Green's theorem in a plane, Gauss's divergence theorem, Stoke's theorem (without proofs) and problems on their verification.

Textbooks:

1. B.S.Grewal, "Higher Engineering Mathematics", Khanna publishers, 45th edition, 2026.
2. Erwin Kreyszig, "Advanced Engineering Mathematics", Wiley, 10th edition, 2023.
3. R.K.Jain & S.R.K.Iyengar, Advanced Engineering Mathematics, Narosa Publications, 5th Edition, 2026.

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Course Code	Course Title						Core / Elective
U26MA301 U26MA401	MATHEMATICS – III (PROBABILITY AND STATISTICS) Branch -CSE(AIML),IT, AIML , ECE, CSE & CSD						Core
Prerequisite	Contact Hours Per Week				CIE	SEE	Credits
--	L	T	D	P			
	3	1	-	-	40	60	3

Course Objectives

The objective of the course is to:

1. Introduce the basic concepts of probability and statistics in engineering
2. Provide the knowledge of probability distributions.
3. Acquire the concepts of curve fitting, correlation and regression.
5. Familiar with the concept of tests of hypothesis for decision making

Course Outcomes

After completing this course, the student will be able to:

1. Determine Probability, Random variables, distributions and its application
2. Apply the knowledge of some standard discrete probability distributions and moments
3. Calculate parameters of standard continuous probability distributions
4. Understand parameters and concepts of correlation, regression and curve fitting.
5. Analyze and check the validity of statement using testing of hypothesis for small sample, large sample, proportion and goodness of fit.

Desirable /Advanced Course Outcomes

1. Design and analyse real world experiments using appropriate statistical tools and techniques.
2. Evaluate data based decision making under uncertainty in engineering and business application.

Unit-I

Introduction of Probability, Conditional probability, Baye"s Theorem and its applications, Random variables, Types of random variables, Probability mass function and Probability density function, Mathematical expectations.

Unit-II

Discrete probability distributions: Binomial and Poisson distributions, Mean, variance, moment generating function and evaluation of statistical parameters for these distributions.



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Unit-III

Continuous probability distributions, Uniform, Exponential and Normal distributions, Mean, variance and evaluation of statistical parameters for these distributions and moment generating function.

Unit-IV

Curve fitting by the method of least squares: fitting of straight lines, second degree parabolas and more general curves, Correlation, regression and Rank correlation.

Unit-V

Test of Hypothesis:

Small Sample test for single mean, difference of means, Large sample test for single mean, difference of means. test for single proportion, difference of proportions, test for ratio of variances, Chi-square test for goodness of fit and independence of attributes.

Textbooks:

1. Advanced Engineering Mathematics, R.K.Jain & Iyengar, Narosa Publications.
2. B.S.Grewal, "Higher Engineering Mathematics", Khanna Publishers.
3. Fundamentals of Mathematical Statistics, S.C. Gupta & V.K. Kapoor, S.Chand Pub
4. Engineering Mathematics, SS Sastry, PHI Learning, Private Limited

REFERENCE BOOKS:

1. P.G. Hoel, S.C. Port and C.J. Stone, "Introduction to Probability Theory", Universal Book Stall,
2. W.Feller, "An Introduction to Probability Theory and its Applications", Vol.1, Wiley,
3. N.P. Bali and M. Goyal, "A text book of Engineering Mathematics", Laxmi Publications,

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Course Code	Course Title						Core / Elective
U26MA302	MATHEMATICS – III (PDE, P&S) (Branch - CIVIL, MECH)						Core
Prerequisite	Contact Hours Per Week				CIE	SEE	Credits
--	L	T	D	P			
	3	1	-	-	40	60	3

Course Objectives

The objective of the course is to:

1. Introduce PDE and solution of first order PDE.
2. Introduce the solution methodologies for second order Partial Differential Equations with applications in engineering
3. Provide an overview of probability and statistics to engineers
4. Obtain the concepts of curve fitting, correlation and test of significance.
5. Acquire the knowledge of Test of Hypothesis pertaining to small and large samples, chi-square for goodness of fit.

Course Outcomes

After completing the course, the student will be able to:

1. Grasp the knowledge of PDE and solution of first order PDE.
2. Understand the solution methodologies for second order Partial Differential Equations with applications in engineering.
3. Solve basic problems of probability and statistics in engineering.
4. Obtain the concepts of curve fitting, correlation and test of significance.
5. Acquire the knowledge of Test of Hypothesis pertaining to small and large samples, chi-square for goodness of fit.

Desirable /Advanced Course Outcomes

1. Use Fourier Series and PDE's to model physical systems such as heat and wave equations
2. Design and analyse real world experiments using appropriate statistical tools and techniques.

UNIT-I:

Formation of Partial Differential Equations, First order partial differential equations, solutions of first order linear Partial Differential Equations, Lagrange's equation, Non-linear First Order equations.

UNIT-II:

Second-order linear equations and their classification, Method of separation of variables, Vibration of stretched string wave equation, one dimensional heat equation.



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UNIT-III:

Introduction of Probability, Conditional probability and its applications, Random variables, Types of random variables, Probability distributions: Poisson, Uniform and Normal distributions, Mean, variance, and evaluation of statistical parameters for these distributions.

UNIT-IV:

Curve fitting by the method of least squares: Fitting of straight lines, second degree Parabolas and more general curves, Correlation, regression and Rank correlation.

UNIT-V:

Test of Hypothesis:

Small Sample test for single mean, difference of means, Large sample test for single mean, difference of means. test for single proportion, difference of proportions, test for ratio of variances, Chi-square test for goodness off it and independence of attributes.

TEXT BOOKS:

- 1.R.K.Jain & Iyengar, "Advanced Engineering Mathematics", Narosa Publications.
- 2.B.S. Grewal, "Higher Engineering Mathematics", Khanna Publishers,
- 3.S.C.Gupta & V.K.Kapoor, "Fundamentals of Mathematical Statistics", S.Chand Pub.

REFERENCE BOOKS:

1. N.P. Bali & M. Goyal, "A Text Book of Engineering Mathematics", Laxmi Publications, 2010.
2. P. G. Hoel, S. C. Port & C. J. Stone, "Introduction to Probability Theory", Universal Book Stall,
3. W. Feller, "An Introduction to Probability Theory and its Applications", Vol. 1, Wiley, 1968.

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Course Code	Course Title					Core/ Elective	
U26MA5L1 U26MA6L1 U26MA7L1	APTITUDE AND REASONING SKILLS LAB Branch– CSE (AIML), IT, AIML, ECE, EEE, CIVIL, CSD, MECH & CSE.					Core	
Prerequisite	Contact Hours Per Week				CIE	SEE	Credits
--	L	T	D	P			
	-	-	-	3	25	50	1

Course Objectives

The objective of the course is to

1. Acquire the concepts of mathematical aptitude and reasoning.
2. Develop the innovative and creative thinking through basic mathematical concepts.
3. Improve analytical and problems solving skills.
4. Enhance logical thinking and mathematical ability.
5. Empower with the basic tools of mathematical aptitude.

Course Outcomes

After completing this course, the student will be able to:

1. Acquire the comprehensibility of Data analysis and its interpretation through percentages and measures of central tendency Improve critical thinking skills
2. Calculate the problems pertaining to number series and reasoning ability Demonstrate quantitative aptitude concepts
3. Analyze the number system pattern and determine profit and losses
4. Evaluate proportions and tackle time framework situations
5. Understand and apply combinatorics, clock-calendar concepts and geometry of plane and solid figures in daily life situation

Desirable /Advanced Course Outcomes

1. Evaluate and select appropriate reasoning strategies for competitive exam scenarios.
2. Develop test taking strategies and time management skills to excel in placement and entrance tests.

APTITUDE AND REASONING SKILLS LAB

1) **Basic concepts:** combined mean, average principles, wrong values taken, number added or deleted, average speed.

2) **Percentages** -Basic Concepts, conversions, finding percentages from given numbers, quantity increases or decreases by given percentage, population increase by given percentage, comparisons, consumption when a commodity price increase or decrease and applications.

3) **Data Interpretation** - Introduction to Data Interpretation, quantitative and qualitative data, Tabular Data, Line Graphs, Bar Chart, Pie Charts, X-Y Charts.

4) **Number Series, Letter Series, Series completion and correction, Coding and Decoding.** Word analogy-Applied analogy, Classifications, verbal classification.



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5) Reasoning Logical Diagrams - Simple diagrammatic relationship, Multi diagrammatic relationship, Venn-diagrams, Analytical reasoning.

Reasoning Ability - Blood Relations, Seating arrangements, Directions, Decision making.
Number Systems: Basic Concepts,

6) Number Systems: Natural numbers, whole numbers, integers, fractions, Rational Numbers, Irrational Numbers, Real Numbers, Divisibility Rules, Logic Equations, Remainder theorem, Unit digit calculation. Progressions & Inequalities: Basic Concepts, Types: arithmetic, geometric, harmonic progression and applications.

7) Profit and Loss: Basic Concepts, discounts, marked price and list price, dishonest shopkeeper with manipulated weights, successive discounts etc. Interest (Simple and Compound): Basic Concepts, Yearly, Half-yearly, and quarterly calculations, multiples, differences between simple and compound interest.

8) Ratio and Proportion: Basic Concepts of ratio and proportion, continued or equal proportions, mean proportions, invest proportion, alternative proportion, division proportion, compound proportion, duplication of ratio, finding values, coins and currencies, etc.

9) Speed, Time and Distance: Basic Concepts, Single train problems, two train problems: some point same side, some point opposite sides, relative speed, different points meeting at common points, different points same side (different timings vs. same timings), ratios, number of stoppages, average speed, etc.

10) Time and Work: Basic Concepts, comparative work, mixed work, alternative work, middle leave and middle join ratio efficiency.

11) Permutations and combinations: Basic Concepts, differences between permutations and combinations, alternative arrangement, fixed positions, items drawing from a single group, items drawing from a multiple group, total ways of arrangement with repetitions and without repetitions, handshakes or line joining between two points or number of matches, sides and diagonals, etc.

12) Clocks and Calendars: Basic Concepts, Angle between minute hand and hour hand, reflex angle, hours hand angle, time gap between minute hand and hour hand, relative time: coincide, opposite sides and right angle, mirror images, faulty clock (slow/fast), miscellaneous, calendar.

13) Geometry and Mensuration: Basic concepts, types of angles.

Plane figures: rectangles, squares, triangles, quadrilateral, areas, perimeters, etc.

Solid figures: cubes, cuboids, cylinders-area (total surface area and lateral surface area), volumes, perimeters.



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Others: Parallelogram, Rhombus, Trapezium, Circle, Sector, Segment, Cone, Sphere, Hemisphere, etc.

REFERENCE BOOKS:

1. A Modern Approach to Verbal Reasoning (Fully solved), Dr R S Aggarwal, S Chand & company.
2. Quantitative Aptitude For competitive Examination (Fully solved), Dr R S Aggarwal, S Chand & company.
3. A Modern Approach to Verbal & Non Verbal Reasoning, Dr R S Aggarwal, S Chand & company.
4. Aptitude and reasoning skills lab Manual, LIET, HYD.

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DEPARTMENT OF MATHEMATICS MINUTES OF THE BOARD OF STUDIES

MEETINGS - 6 ANNEXURE II

Examination Branch

Nominee Performa for Paper Setters

Name of the Examination Programme	B.E I-Year / SEM-I / SEE	Academic Year	2026-2027
	B.E I-Year	Branch/Specialization	Common to all / Mathematics - I (Differential and Vector Calculus)
Course name	Mathematics - I (Differential and Vector Calculus)	Course Code	U26MA101

List of the Nominee's for Paper setting

S. No	Name of Paper Setter	Designation & Address	Experience (in Years)	Area of Expertise	E-mail ID	Phone Number	No. of times Course Taught
1	Dr. Afroz	Head & Associate Professor, Dept. of Mathematics, Maulana Azad National Urdu University (MAU U), HYD	15	Mathematics-I	Afroz.ahmed@manuu.edu.in	8886269350	10



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2	Dr. M P Mallesh	Assistant Professor, Dept of Mathematics, KL Deem to de University, HYD	20	Mathematics-I	mardanpallypeddam@g mail.com	9291518420	19
3	Dr Konduru Venkateswara Raju	Associate Professor, Dept of Mathematics.SV college of Engineering(A), Tirupati.AP	14	Mathematics-I	Venkateswararaju.k@s college.edu.in	9502770029	18

Name & Signature of the Course Coordinator: Dr Shaik Mohammed Ali

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Name & Signature of the Dean I Year : Dr. J.Sasi Kiran

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DEPARTMENT OF MATHEMATICS MINUTES OF THE BOARD OF STUDIES MEETINGS - 6 ANNEXURE III

Examination Branch

Nominee Performa for Evaluators

Name of the Examination	B.E I-Year / SEM-I / SEE	Academic Year	2026--2027
Programme	B.E I-Year	Branch/Specialization	Common to all / Mathematics - I (Differential and Vector Calculus)
Course name	Mathematics - I (Differential and Vector Calculus)	Course Code	U26MA101

S. No	Name of Evaluator	Designation & Address	Experience (in Years)	Area of Expertise	E-mail ID	Phone Number	No. of times Course Taught
1	Dr. D.V.S.R. Anil Kumar	Professor, TKRCET	21	Mathematics	dvsranilkumar@gmail.com	9440365690	18
2	Dr. J. Pramada	Assistant Professor, KMLJ	20	Mathematics	pramadaskk@gmail.com	9440177080	18
3	Md. Parveen Banu	Associate Professor, CMRIT	12	Mathematics	parveenbanugadde@gmail.com	9441162171	10
4	B. Thirupathi Reddy	Assistant Professor, CMRI	12	Mathematics	Thirupathireddy.gnr2@gmail.com	9848952087	10



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5	CH. Janardhan	Assistant Professor, KMIT	10	Mathematics	Chennoji.janardhan@gmail.com	9951311963	9
6	Dr.R.Ramakrishna	Professor, VJIT	20	Statistics	ramakrishna@vjit.ac.in	9491009292	20
7	Dr.K.Venugopal Reddy	Associate Professor, MREC	15	Mathematics	venugopal.reddy1982@gmail.com	7382550136	15

Name & Signature of the Course Coordinator: Dr Shaik Mohammed Ali

Name & Signature of the Dean I Year : Dr. J.Sasi Kiran

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DEPARTMENT OF MATHEMATICS MINUTES OF THE BOARD OF STUDIES

MEETINGS - 4

ANNEXURE IV

Examination Branch

Nominee Performa for Paper Setters

Name of the Examination Programme	B.E I-Year / SEM-II / SEE	Academic Year	2026-2027
B.E I-Year		Branch/Specialization	Common to all / Mathematics - II (Matrices & Differential equations)
Course name	Mathematics - II (Matrices & Differential equations)	Course Code	U26MA201

List of the Nominee's for Paper setting

S. No	Name of Paper Setter	Designation & Address	Experience (in Years)	Area of Expertise	E-mail ID	Phone Number	No. of times Course Taught
1	Dr. E. Prasad	Asst. Professor, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad	12	M - II	Prasad_e@vnrvjiet.in	9908150216	10
2	Dr. P Kalyan Kumar	Asst. Professor, K L University, Hyd	10	M - II	Kalian.kumar@klh.edu.in	9063010201	10



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3	Dr. Afroz	Head & Associate Professor, Dept.ofMathema tics ,Maulana Azad National Urdu University(MAU U,HYD	15	Mathematics-I	Afroz.ahmed@manuu.e du.in	8886269350	10
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Name & Signature of the Course Coordinator: Dr Shaik Mohammed Ali

Name & Signature of the Dean I Year : Dr. J.Sasi Kiran

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DEPARTMENT OF MATHEMATICS

MINUTES OF THE BOARD OF STUDIES

MEETINGS - 4

ANNEXURE V

Examination Branch

Nominee Performa for Evaluators

Name of the Examination	B.E I-Year / SEM-II / SEE	Academic Year	2026-2027
Programme	B.E I-Year	Branch/Specialization	Common to all / Mathematics – II (Matrices & Differential equations)
Course name	Mathematics – II (Matrices & Differential equations)	Course Code	U26MA201

List of the Nominee's for SEE Evaluation

S. No	Name of Evaluator	Designation & Address	Experience (in Years)	Area of Expertise	E-mail ID	Phone Number	No. of times Course Taught
1	Dr. D.V.S.R. Anil Kumar	Professor, TKRCET	21	Mathematics	dvsranilkumar@gmail.com	9440365690	18
2	Dr. J. Pramada	Assistant Professor, KMLJ	20	Mathematics	pramadask@gmail.com	9440177080	18
3	Md. Parveen Banu	Associate Professor, CMRIT	12	Mathematics	parveenbanugadde@gmail.com	9441162171	10



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4	B. Thirupathi Reddy	Assistant Professor, CMRI T	12	Mathematics	Thirupathireddy.gnr2@gmail.com	9848952087	10
5	CH. Janardhan	Assistant Professor, KMIT	10	Mathematics	Chennoji.janardhan@gmail.com	9951311963	9
6	Dr. Ch. Vittal	Assistant Professor (AC's), UCSS, saifabad	05	Mathematics	Vittalch1006@gmail.com	9492560384	8
7	Dr.R.Ramakrishna	Professor, VJIT	20	Statistics	ramakrishna@vjit.ac.in	9491009292	20
8	Dr.K.Venugopal Reddy	Associate Professor, MREC	15	Mathematics	venugopal.reddy1982@gmail.com	7382550136	15

Name & Signature of the Course Coordinator: Dr Shaik Mohammed Ali *Ali* Name & Signature of the Dean 1 Year : Dr. J.Sasi Kiran

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DEPARTMENT OF MATHEMATICS MINUTES OF THE BOARD OF STUDIES MEETINGS - 6 ANNEXURE X

Examination Branch

Nominee Performa for Paper Setters

Name of the Examination	B.E I-Year / SEM-I / SEE	Academic Year	2026-2027
Programme	B.E I-Year	Branch/Specialization	Common to all / Mathematics - I
Course name	Mathematics – I	Course Code	U26MA101

List of the Nominee's for SEE Evaluation

S. No	Name of Setter	Designation & Address	Experience (in Years)	Area of Expertise	E-mail ID	Phone Number	No. of times Course Taught
1	Dr. M P Mallesh	Assistant Professor, Dept of Mathematics, KL Deemed to be University, HYD	20	Mathematics-I	mardanpallypeddam@gmail.com	9291518420	19
2	Dr Konduru Venkateswara Raju	Associate Professor, Dept of	14	Mathematics-I	Venkateswararaju.k@s vcollege.edu.in	9502770029	18



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	Mathematics.SV college Engineering(A), Tirupati.AP					
3	Dr. T S Triveni	Professor, Geetanjali College of Engineering and Technology.	23	Mathematics-I	vstriveni.fe@gcet.edu.i n	7660827666 15

Name & Signature of the Course Coordinator: Dr Shaik Mohammed Ali

Name & Signature of the Dean I Year : Dr. J.Sasi Kiran

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DEPARTMENT OF MATHEMATICS MINUTES OF THE BOARD OF STUDIES MEETINGS - 6 ANNEXURE XI

Examination Branch

Nominee Performa for Evaluators

Name of the Examination Programme	B.E I-Year / SEM-I / SEE	Academic Year	2026-2027
	B.E I-Year	Branch/Specialization	Common to all / Mathematics - I
Course name	Mathematics – I	Course Code	U26MA101

List of the Nominee's for SEE Evaluation

S. No	Name of Evaluator	Designation & Address	Experience (in Years)	Area of Expertise	E-mail ID	Phone Number	No. of times Course Taught
1	Dr. D.V.S.R. Anil Kumar	Professor, TKRCET	21	Mathematics	dvsranilkumar@gmail.com	9440365690	18
2	Dr. J. Pramada	Assistant Professor, KMLI	20	Mathematics	pramadask@gmail.com	9440177080	18
3	Md. Parveen Banu	Associate Professor, CMRIT	12	Mathematics	parveenbanugadde@gmail.com	9441162171	10



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4	B. Thirupathi Reddy	Assistant Professor, CMRI	12	Mathematics	Thirupathireddy.gnr2@gmail.com	9848952087	10
5	CH. Janardhan	Assistant Professor, KMIT	10	Mathematics	Chennoji.janardhan@gmail.com	9951311963	9
6	Dr.R.Ramakrishna	Professor, VJIT	20	Statistics	ramakrishna@vjit.ac.in	9491009292	20
7	Dr.K.Venugopal Reddy	Associate Professor, MREC	15	Mathematics	venugopal.reddy1982@gmail.com	7382550136	15

Name & Signature of the Course Coordinator: Dr Shaik Mohammed Ali

Name & Signature of the Dean I Year : Dr. J.Sasi Kiran

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