

Maharashtra State Board of Technical Education, Mumbai

Academic Year: 2026-2027

Date: 12/07/2026

Institute Name & Code: K. K. Wagh Polytechnic, Nashik (0078)

Program Name and Code: Artificial Intelligence and Machine Learning(AN)

Course Name: Statistical Modelling For Machine Learning

Course Abbreviation and Code: SML-313307

Name of Faculty: Mrs. K.N. Deshmukh

Course Index: 306

Semester: IIIrd

Scheme: 'K'

Class: SYAN

TUTORIAL PLAN

Tu. No.	Topic	TLO's	Date of Completion		
			Batch A	Batch B	Batch C
1	Statistical Techniques-I	TLO 1.1-Solve problems based on Frequency Distribution. TLO 1.2-Calculate Mean, Median and Mode for all types of data. TLO 1.3-Find Mode and Median using Graphical method. TLO 1.4-Concept of Quartiles, Deciles and Percentiles for all types of data.	20/7/2026	21/7/2026	22/7/2026
2	Statistical Techniques-II	TLO 1.5-Find Karl Pearson's and Bowley's Co-efficient of Skewness for the given data. TLO 1.6-Calculate the Measures of Kurtosis based on moment for given data.	27/7/2026	28/7/2026	29/7/2026
3	Statistical Methods-I	TLO 2.1-Fit straight line and second-degree polynomial using Least Square method. TLO 2.2-Calculate Coefficient of correlation using Karl-Pearson's	3/8/2026	4/8/2026	5/8/2026
4	Statistical Methods-II	TLO 2.2-Calculate Coefficient of correlation using Spearman's Rank TLO 2.3-Obtain the equation to the Line of Regression for the given data.	17/8/2026	18/8/2026	19/8/2026
5	Probability of Random Variable I	TLO 3.1 Solve problems using addition and multiplication probability theorem. TLO 3.2 Solve problems using Conditional Probability. TLO 3.3 Solve problems using Bayes' theorem.	31/8/2026	1/8/2026	2/8/2026
6	Probability of Random Variable II		7/9/2026	8/9/2026	9/9/2026
7	Interpolation I	TLO 4.1-Solve problems using Lagrange's interpolation formula. TLO 4.2-Construct forward and backward difference table.	14/9/2026	15/9/2026	16/9/2026

8	Interpolation II	TLO 4.3-Solve problems using Forward, Backward, Shift, Inverse shift operators. TLO 4.4-Solve problems on Forward and Backward Interpolation. TLO 4.5-Solve problems on Extrapolation.	21/9/2026	22/9/2026	23/9/2026
9	Sampling Methods-I	TLO 5.1-Solve the given problem using Sampling distribution proportion. TLO 5.2-Test samples using t-Distribution.	28/9/2026	29/9/2026	30/9/2026
10	Sampling Methods-II	TLO 5.3-Test samples using chi-Square Distribution. TLO 5.4-Use Chi-Square test to test the Independence.	5/10/2026	6/10/2026	7/10/2026

Mrs. K.N.Deshmukh
Name & Signature of the Faculty
Cc: 1. Course File- SML(313307)

Prof. R.Y.Thombare
(H.O.D - AN)

K. K. Wagh Polytechnic, Nashik.
Academic Year-2023-24
Subject: Mathematics(MML-I-22397)

Semester:-IV

Course: AN-4-I

TUTORIAL PLAN

Tu. No.	Topic	Date of Completion		
		Batch A	Batch B	Batch C
1	Solve simple problems of Logarithms based on definition and laws.	22/08/18	14/08/18	22/08/18
2	Solve problems on determinant to find area of triangle, and solution of simultaneous equation by Cramer's Rules.	22/08/18	21/08/18	22/08/18
3	Solve elementary problems on Algebra of matrices.	29/08/18	28/08/18	29/08/18
4	Solve solution of Simultaneous Equation using inversion method.	29/08/18	28/08/18	29/08/18
5	Resolve into partial fraction using linear non repeated, repeated, and irreducible factors.	05/09/18	04/09/18	05/09/18
6	Solve problems on Compound, Allied, multiple and sub multiple angles.	05/09/18	04/09/18	05/09/18
7	Practice problems on factorization and de factorization.	12/09/18	11/09/18	12/09/18
8	Solve problems on inverse circular trigonometric ratios.	19/09/18	18/09/18	19/09/18
9	Practice problems on equation of straight lines using different forms.	26/09/18	25/09/18	26/09/18
10	Solve problems on perpendicular distance, distance between two parallel lines, and angle between two lines.	03/10/18	25/09/18	03/10/18
11	Solve problems on Area, such as rectangle, triangle, and circle.	03/10/18	02/10/18	03/10/18
12	Solve problems on surface and volume, sphere, cylinder and cone.	10/10/18	02/10/18	10/10/18
13	Solve practice problems on the surface area, volumes and its applications.	17/10/18	09/10/18	17/10/18
14	Solve problems on finding range, coefficient of range and mean deviation.	17/10/18	16/10/18	17/10/18
15	Solve problems on standard deviation.	24/10/18	23/10/18	24/10/18

16	Solve problems on coefficient of variation and comparison of two sets.	24/10/18	23/10/18	24/10/18
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Name and Sign of Faculty

HOD

K. K. Wagh Polytechnic, Nashik.

Academic Year-2023-24

Subject: Basic Mathematics(BMS-22103)

Semester:-I

Course: AN-1-K

TUTORIAL PLAN

Tu. No.	Topic	Date of Completion		
		Batch A	Batch B	Batch C
1	Solve simple problems of Logarithms based on definition and laws.	07/08/19	06/08/19	07/08/19
2	Solve problems on determinant to find area of triangle, and solution of simultaneous equation by Cramer's Rules.	14/08/19	13/08/19	14/08/19
3	Solve elementary problems on Algebra of matrices.	14/08/19	13/08/19	14/08/19
4	Solve solution of Simultaneous Equation using inversion method.	21/08/19	20/08/19	21/08/19
5	Resolve into partial fraction using linear non repeated, repeated, and irreducible factors.	21/08/19	20/08/19	21/08/19
6	Solve problems on Compound, Allied, multiple and sub multiple angles.	28/08/19	27/08/19	28/08/19
7	Practice problems on factorization and de factorization.	28/08/19	27/08/19	28/08/19
8	Solve problems on inverse circular trigonometric ratios.	04/09/19	03/09/19	04/09/19
9	Practice problems on equation of straight lines using different forms.	11/09/19	10/09/19	11/09/19
10	Solve problems on perpendicular distance, distance between two parallel lines, and angle between two lines.	18/09/19	17/09/19	18/09/19
11	Solve problems on Area, such as rectangle, triangle, and circle.	25/09/19	17/09/19	25/09/19
12	Solve problems on surface and volume, sphere, cylinder and cone.	02/10/19	24/09/19	02/10/19
13	Solve practice problems on the surface area, volumes and its applications.	02/10/19	01/10/19	02/10/19
14	Solve problems on finding range, coefficient of range and mean deviation.	09/10/19	08/10/19	09/10/19
15	Solve problems on standard deviation.	16/10/19	15/10/19	16/10/19
16	Solve problems on coefficient of variation and comparison of two sets.	23/10/19	22/10/19	23/10/19

Name and Sign of Faculty

Name and Sign of HOD

K. K. Wagh Polytechnic, Nashik.**Academic Year-2023-24****Subject: Applied Mathematics(AMI-22224)****Semester:-II****Course: AN-2-K****TUTORIAL PLAN**

Tu. No.	Topic	Date of Completion		
		BatchA	Batch B	Batch C
1	Solve problems based on finding value of the function at different points.	11/12/17	12/12/17	14/12/17
2	Solve problems to find derivatives of implicit function and parametric function	18/12/17	19/12/17	21/12/17
3	Solve problems to find derivative of logarithmic and exponential functions.	18/12/17	19/12/17	21/12/17
4	Solve problems based on finding equation of tangent and normal.	01/01/18	26/12/17	27/12/17
5	Solve problems based on finding maxima, minima of function and radius of curvature at a given point.	01/01/18	02/01/18	04/01/18
6	Solve the problems based on standard formulae of integration.	08/01/18	09/01/18	11/01/18
7	Solve problems based on methods of integration, substitution, partial fractions.	15/01/18	16/01/18	18/01/18
8	Solve problems based on integration by parts.	22/01/18	16/01/18	18/01/18
9	Solve practice problems based on properties of definite integration.	29/01/18	23/01/18	25/01/18
10	Solve practice problems based on finding area under curve, area between two curves and volume of revolutions.	29/01/18	30/01/18	01/02/18
11	Solve the problems based on formation, order and degree of differential equations.	05/02/18	06/02/18	08/02/18
12	Solve differential equations using variable separable method to related engineering problem.	12/02/18	13/02/18	15/02/18
13	Solve differential equations using the concept of linear differential equation to related engineering problem.	19/02/18	13/02/18	15/02/18
14	Solve problems based on finding the roots of algebraic equations using Regula Falsi method.	26/02/18	27/02/18	29/02/18
15	Solve problems based on finding the roots of transcendental equations using Newton Raphson method	05/03/18	06/03/18	07/03/18
16	Solve problems based on solution of system of equations using Gauss	12/03/18	13/03/18	15/03/18

	elimination method and Gauss Seidal method.			
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Name and Sign of Faculty

HOD, Science