



Aggarwal College Ballabgarh

LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Ramkishan

Designation/ Department: Assistant professor in mathematics

CLASS: B.sc (H) Mathematics

SEMESTER: VI

SECTION: NIL

SUBJECT: Fluid Dynamics

Week		
1	7-1-2025	Introduction to fluid dynamics
	8-1-2025	Kinematics - Eulerian and Lagrangian methods.
	9-1-2025	Continued
	10-1-2025	Stream lines
	11-1-2025	Continued
	12-1-2025	S. U. N. D. A. Y.
2	13-1-2025	path lines and streak lines
	14-1-2025	Continued
	15-1-2025	Velocity potential
	16-1-2025	Continued
	17-1-2025	Continued
	18-1-2025	Irrotational and rotational motions
	19-1-2025	S. U. N. D. A. Y.
3	20-1-2025	Continued
	21-1-2025	Continued
	22-1-2025	Vortex lines

	23-1-2025	
	24-1-2025	Equation of continuity
	25-1-2025	Continued
	26-1-2025	REPUBLIC DAY /S. U. N. D. A. Y.
4	27-1-2025	Boundary surfaces
	28-1-2025	Previous year paper question solved based above topics
	29-1-2025	Previous year paper question solved based above topics
	30-1-2025	Previous year paper question solved based above topics
	31-1-2025	Previous year paper question solved based above topics
	1-2-2025	Acceleration at a point of a fluid
	2-2-2025	S. U. N. D. A. Y/BASANT PANCHAMI
5	3-2-2025	Continued
	4-2-2025	Continued
	5-2-2025	Components of acceleration in cylindrical and spherical polar co-ordinates,
	6-2-2025	Continued
	7-2-2025	Continued
	8-2-2025	Pressure at a point of a moving fluid
	9-2-2025	S. U. N. D. A. Y
6	10-2-2025	Continued
	11-2-2025	Continued
	12-2-2025	HOLIDAY: GURU RAVIDAS JAYANTI
	13-2-2025	Euler's equations of motion.
	14-2-2025	Continued
	15-2-2025	Continued

	16-2-2025	S. U. N. D. A. Y.
7	17-2-2025	Lagrange's equations of motion
	18-2-2025	Continued
	19-2-2025	Continued
	20-2-2025	Bernoulli's equation
	21-2-2025	Continued
	22-2-2025	Impulsive motion.
	23-2-2025	S. U. N. D. A. Y.
8	24-2-2025	Stream function.
	25-2-2025	Continued
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	Previous year paper question solved based above topics
	28-2-2025	Previous year paper question solved based above topics
	1-3-2025	Previous year paper question solved based above topics
	2-3-2025	S. U. N. D. A. Y.
9	3-3-2025	Previous year paper question solved based above topics
	4-3-2025	Acyclic and cyclic irrotation motions
	5-3-2025	Continued
	6-3-2025	Kinetic energy of irrotational flow
	7-3-2025	Kelvin's minimum energy theorem
	8-3-2025	Continued
	9-3-2025	S. U. N. D. A. Y.
10	10-3-2025	HOLI BREAK
	11-3-2025	HOLI BREAK

	12-3-2025	HOLI BREAK
	13-3-2025	HOLI BREAK
	14-3-2025	HOLI BREAK
	15-3-2025	HOLI BREAK
	16-03-2025	S. U. N. D. A. Y.
11	17-3-2025	Axially symmetric flows.
	18-3-2025	Liquid streaming past a fixed sphere.
	19-3-2025	Continued
	20-3-2025	Continued
	21-3-2025	Motion of a sphere through a liquid at rest at infinity
	22-3-2025	Continued
	23-3-2025	S. U. N. D. A. Y.
12	24-3-2025	Equation of motion of a sphere
	25-3-2025	Continued
	26-3-2025	Continued
	27-3-2025	Three-dimensional sources, sinks, doublets and their images
	28-3-2025	Continued
	29-3-2025	Continued
	30-3-2025	S. U. N. D. A. Y.
13	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	Stoke's stream function.
	2-4-2025	Continued
	3-4-2025	Irrotational motion in two-dimensions
	4-4-2025	Continued

	5-4-2025	Complex velocity potential
	6-4-2025	S. U. N. D. A. Y.
14	7-4-2025	
	8-4-2025	Milne-Thomson circle theorem
	9-4-2025	Continued
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	Two-dimensional sources, sinks, doublets and their images
	12-4-2025	Continued
	13-4-2025	S. U. N. D. A. Y.
15	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	Continued
	16-4-2025	Continued
	17-4-2025	Previous year paper question solved based above topics
	18-4-2025	Previous year paper question solved based above topics
	19-4-2025	TEST
	20-4-2025	S. U. N. D. A. Y.
16	21-4-2025	Blasius theorem.
	22-4-2025	Continued
	23-4-2025	Continued
	24-4-2025	Two- dimensional irrotation motion produced by motion of circular cylinder an infinite mass of liquid
	25-4-2025	Continued
	26-4-2025	Two- dimensional irrotation motion produced by motion of coaxial cylinders in an infinite mass of liquid

	27-4-2025	S. U. N. D. A. Y.
17	28-4-2025	Revision
	29-4-2025	Revision
	30-4-2025	HOLIDAY: AKSHAY TRITYA
	01-05-2025	Revision
	02-05-2025	Revision
	03-05-2025	Revision
	04-05-2025	S. U. N. D. A. Y.

Signature