

DGMS Mine Surveying: Online Class+Test Series Exam 2026

Faculties:-

- 1) Shri Bijay Kishore Sir- Ret Chief Manager (Coal India Ltd)- For Regulations & Circular related to Surveying
- 2) Shri Shailendra Prajapati- For L1 to L38

Class Format:-

- Total No. of Lectures- 40-45
- Three Lectures in a Week.
- Previous Year Question Papers discussion
- Time - Evening
- One Hour Lecture- 45 Min Topic Lecture + 15 Min MCQ discussion

What is included in course:-

- 1) Online Live Class plus its recorded lectures
- 2) Faculty Lecture Notes
- 3) Online MCQ Test Series
- 4) Whatsapp Support

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DGMS Mine Surveying: Detailed Lecture Plan Exam 2026

(Total 40-45 Lectures)

Lesson (Lec No.)	Topic	Sub Topic	Date
L1	Intro & Linear Measurement	Surveying principles, Units, Chains, and Tapes.	10-03-2026
L2		Tape corrections (Temperature, Pull, Sag) and Errors.	11-03-2026
L3	Angular Measurement	Compass Surveying, Magnetic and Grid Bearings.	12-03-2026
L4	Area & Volume Calculations	Area by offsets, Trapezoidal, and Simpson's Rule.	17-03-2026
L5		Prismoidal and Average End Area methods for earthwork.	18-03-2026
L6	Theodolite Traversing	Parts of Theodolite and Temporary Adjustments.	19-03-2026
L7		Methods of traversing and Field Book entry.	24-03-2026
L8	Levelling	Fundamentals, Benchmarks, and Types of Levelling.	25-03-2026
L9	Levelling Calculation	Rise & Fall method and Height of Instrument (HI) method.	26-03-2026
L10	Levelling Errors	Curvature and Refraction corrections, Reciprocal Levelling.	31-03-2026
L11	Survey Mathematics	Basic Trigonometry applications in Mine Surveying.	01-04-2026
L12	Co-ordinate Geometry	Rectangular Co-ordinates: Latitude and Departure.	02-04-2026
L13	Co-ordinate Calculation	Closing error calculation and Balancing of Traverse.	07-04-2026
L14	True North	Determination of True North by Astronomical observations.	08-04-2025

Lesson (Lec No.)	Topic	Sub Topic	Date
L15		Magnetic declination and its variations.	09-04-2026
L16	Triangulation	Principles, Classification, and Layout of Triangulation.	14-04-2026
L17		Base line measurement and extension of base.	15-04-2026
L18		Satellite stations and Reduction to center.	16-04-2026
L19	Topographic Survey	Plane table methods and Mapping of surface features.	21-04-2026
L20	Tacheometry	Principles of Tacheometry and Stadia systems.	22-04-2026
L21		Tangential method and use of Anallatic lens.	23-04-2026
L22	Theory of Errors	Types of errors (Systematic, Random) and Sources.	28-04-2026
L23	Survey Adjustments	Law of weights and adjustment of survey observations.	29-04-2026
L24	Contouring	Definition, Characteristics, and uses of Contours.	30-04-2026
L25		Methods of Contouring (Direct and Indirect).	05-05-2026
L26	Underground Survey	Booking, Stations, and Illumination in UG Mines.	06-05-2026
L27	Opencast Survey	Face survey, Bench mapping, and Monitoring.	07-05-2026
L28	Correlation Survey	Importance and Direct method (Shaft Plumbing).	12-05-2026
L29		Indirect methods (Weisbach Triangle and Coplaning).	13-05-2026
L30	Subsidence Survey	Ground movement monitoring and Observation stations.	14-05-2026

Lesson (Lec No.)	Topic	Sub Topic	Date
L31	Construction Survey	Setting out Geometrical Elements and Mine Drivage.	19-05-2026
L32	Rail Curves	Elements of Simple Circular Curves.	20-05-2026
L33		Setting out curves (Linear and Angular methods).	21-05-2026
L34	Geologic Problems	Dip, Strike, and Outcrop calculations.	26-05-2026
L35		Fault problems: Displacement, Throw, and Heave.	27-05-2026
L36	Plan Accuracy	DGMS Circulars regarding accuracy and plan standards.	28-05-2026
L37	Modern Technology	Total Station, DGPS	29-05-2026
L38		Drone Survey, and Softwares (SURPAC).	30-05-2026
L39-45	Regulations & Circulars related to Surveying		Date will be announced in class