

**"PVT" NSSK Govt. Polytechnic Bilaspur at Kaildi**  
**Linear Planning (Theory)**

Branch: Mech. Engg.

Subject: Mathematics-II

Teacher: Mr. Purna Band Sharma

Semester - 2nd

Session Jan-June, 2020

| S. No. | Period No. | Topic                  | Detail of Contents                                                                                                                                                                                                                                                                                            | Instruction References            | Additional study Recommended                    | Remarks |
|--------|------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------|---------|
| 1      | 1-4        | Algebra                | (1.1) Determinants : Definition, Value of Det. Of order $2^{\text{nd}}$ , $3^{\text{rd}}$ , Minors, Co-factors and Co-factors Expansion, Problems related to these, Properties of determinants up to 3rd order, applications of det. in solving a system of linear equations by Cramers, Rule, Consistency of | Applied Mathematics Eight Edition | Generators Engineering Mathematics by BS Grewal |         |
| 2      | 5-13       | Algebra                | (1.2) Matrix (Set of 2x2), Type of matrix, Algebra of matrices, Addict of a Matrix, properties of addents, inverse of a matrix, Properties of inverse Matrix inversion, method to solve a system of linear equations in 2 variables                                                                           |                                   | Engineering mathematics by Ramesh Garg          |         |
| 3      | 14-24      | Indefinite integration | (2.1) Integration by Decomposition of the integrand: Definition, Fundamental integrals, theorems and problems.                                                                                                                                                                                                |                                   |                                                 |         |
| 4      | 25-30      | Indefinite integration | (2.2) Integration by Substitution : Method of substitution some standard integrals, and to find subtle form, Some special methods of integrating trigonometric functions.                                                                                                                                     |                                   |                                                 |         |
| 5      | 31-40      | Indefinite integration | (2.3) Integration by Parts and Partial Fractions: Integration by parts, reducible form, Integration by partial fractional, linear factors only                                                                                                                                                                |                                   |                                                 |         |
| 6      | 41-45      | Definite integration   | (2.4) Definite Integrals : Definite Integrals, Standard Formulas, Area under the curve, Volume enclosed by revolution fig when revolved about axis                                                                                                                                                            |                                   |                                                 |         |
| 7      | 46-50      | Co-ordinate Geometry   | (3.1) Straight Line Equations: of straight line in various standard forms (without proof), intersection of two straight lines, angle between two lines, Parallel and perpendicular lines, perpendicular distance formulae                                                                                     |                                   |                                                 |         |
| 8      |            | Co-ordinate Geometry   | (3.2) Conics: General equation of a circle and its characteristics, To find the equation of a circle, given " Centre and radius" " Three points lying on it " Coordinates of end points of a diameter                                                                                                         |                                   |                                                 |         |
| 9      | 51-60      | Co-ordinate Geometry   | (3.3) Conics : (Parabola, Ellipse, Hyperbola) their standard Equations without proof. Problems on conics when they focus, directrices and vertices are given                                                                                                                                                  |                                   |                                                 |         |
| 10     | 61-75      | Differential Equations | (4.1) Differential Equations: Solution of first order and first degree differential equation by variable separation method                                                                                                                                                                                    |                                   |                                                 |         |

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**PVC NSSK Govt. Polytechnic Bilaspur at Kaloi, Distt. Bilaspur  
(H.P)**

**Department of applied Science & Humanities**

**Course: Diploma**

**Branch: Mechanical, Electrical Engineering.**

**Session: 27 Jan 2026 to 27 MAY 2026**

**Subject: Applied Physics-II**

**Teacher: Pritam Chand**

**Laboratory: Physics Lab**

**Lession plan for syllabus coverage: Theory-56 Hours, Practical-28 Hours**

| S.No | Lecture No. | Topic                            | Syllabus Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|-------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1-12        | Wave motion and its applications | Wave motion, transverse and longitudinal waves with examples, definitions of wave velocity, frequency and wave length and their relationship, Sound and light waves and their properties, wave equation ( $y = \sin ut$ ) amplitude, phase, phase difference, Principle of superposition of waves and beat formation.<br>Simple Harmonic Motion (SHM): definition, expression for displacement, velocity, acceleration, time period, frequency etc.<br>Free, forced and resonant vibrations and their examples.<br>Acoustics of buildings – reverberation, reverberation time, echo, noise, coefficient of absorption of sound, methods to control reverberation time and their applications.<br>Ultrasonic waves – Introduction and properties, engineering and medical applications of ultrasonic. |
| 2    | 13-21       | Optics                           | Basic optical laws- reflection and refraction, refractive index, Images and image formation by mirrors, lens and thin lenses, lens formula, power of lens, magnification.<br>Total internal reflection, Critical angle and conditions for total internal reflection, applications of total internal reflection in optical fiber.<br>Optical Instruments- simple and compound microscope, astronomical telescope in normal adjustment and their magnifying powers                                                                                                                                                                                                                                                                                                                                     |
| 3    | 22-27       | Electrostatics                   | Coulomb's law, unit of charge.<br>Electric field, Electric lines of force and their properties<br>Electric flux, Electric potential and potential difference.<br>Gauss's law<br>Capacitor and its working, Capacitance and its units Capacitance of a parallel plate capacitor, Series and parallel combination of capacitors (related numerical), dielectric and its effect on capacitance, dielectric break down.                                                                                                                                                                                                                                                                                                                                                                                  |

|   |       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---|-------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | 26-33 | Current Electricity   | Electric Current and its units, Direct and alternating current, Resistance and its units, Specific resistance, Conductance, Specific conductance, Series and parallel combination of resistances, Factors affecting resistance of a wire, carbon resistances and colour coding.<br>Ohm's law and its verification, Kirchhoff's laws.<br>Concept of terminal potential difference and Electro motive force (EMF)<br>Heating effect of current, Electric power, Electric energy and its units (related numerical problems), Advantages of Electric Energy over other forms of energy. |
| 5 | 34-40 | Electromagnetism      | Types of magnetic materials: dia, para and ferromagnetic with their properties.<br>Magnetic field and its units, magnetic intensity, magnetic lines of force, magnetic flux and units, magnetization, Lorentz force (force on moving charge in magnetic field), Force on current carrying conductor.<br>Moving coil galvanometer, principle, construction and working, Conversion of a galvanometer into ammeter and voltmeter.                                                                                                                                                     |
| 6 | 41-46 | Semiconductor Physics | Energy bands in solids, Types of materials (insulator, semiconductor, conductor), Intrinsic and extrinsic semiconductors.<br>p-n junction, junction diode and V-I characteristics, Diode as rectifier - half wave and full wave rectifier (centre tapped), Photocells, Solar cells; working principle and engineering applications.                                                                                                                                                                                                                                                 |
| 7 | 47-56 | Modern Physics        | Lasers: Energy levels, ionization and excitation potentials, spontaneous and stimulated emission; population inversion, pumping methods, optical feedback, Types of lasers; Ruby, He-Ne and semiconductor, laser characteristics, engineering and medical applications of lasers.<br>Fiber Optics: Introduction to optical fibers, light propagation, acceptance angle and numerical aperture, fiber types, applications in telecommunication, medical and sensors.                                                                                                                 |

*Chatur*

(Petam Chand)  
Lecturer Physics

*PS*

(Parna Nand Sharma)  
OIC  
ASSH

**"PVC" NSSK Govt. Polytechnic Bilaspur at Kaloi**  
**Lecture Planning (Theory)**

Branch: Mechanical Engg / ~~Electrical Engg~~  
 Subject: Fundamentals of Electrical & Electronics Engineering  
 Teacher: Satish Kumar

Semester: 2<sup>nd</sup>  
 Session: Jan 26 - May 28  
 Class Room: L2

| Sl. No. | No. of Lectures | Chapter/ Unit Description                   | Detail of Contents                                                                                                                                                                                                                                                                                                                                                                                                                                       | Reference Resources | Rem |
|---------|-----------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|
| 1.      | 1-10            | Overview of Electronic Components & Signals | Passive Active Components: Resistances, Capacitors, Inductors, Diodes, Transistors, FET, MOS and CMOS and their Applications. Signals: DC/AC, voltage/current, periodic/non-periodic signals, average, rms, peak values, different types of signal waveforms. Ideal/non-ideal voltage/current sources, independent/dependent voltage current sources.                                                                                                    | R1, R2, R3, R4, R5  |     |
| 2.      | 11-18           | Overview of Analog Circuits                 | Operational Amplifiers-ideal Op-Amp, Practical op amp, Open loop and closed loop configurations, Application of Op-Amp as amplifier, adder, differentiator and integrator.                                                                                                                                                                                                                                                                               | -do-                |     |
| 3.      | 19-27           | Overview of Digital Electronics             | Introduction to Boolean Algebra, Electronic Implementation of Boolean Operations, Gate-Functional Block Approach, Storage elements-Flip Flops-A Functional block approach, Combinational Ripple Up/down and decoders, Introduction to digital IC Gates (w/ TTL Type).                                                                                                                                                                                    | -do-                |     |
| 4.      | 28-37           | Electric and Magnetic Circuits              | EMF, Current, Potential Difference, Power and Energy; M.M.F, magnetic force, permeability, hysteresis loop, reluctance, leakage factor and BH curve; Electromagnetic induction, Faraday's law of electromagnetic induction, Lenz's law, Dynamically induced e.m.f. Statistically induced e.m.f. Equations of self and mutual inductance; Analogy between electric and magnetic circuits.                                                                 | -do-                |     |
| 5.      | 38-49           | A.C. Circuits                               | Cycle, Frequency, Periodic time, Amplitude, Angular velocity, RMS value, Average value, Form Factor Peak Factor, impedance, phase angle, and power factor; Mathematical and phasor representation of alternating vol and current, Voltage and Current relationship in the and Delta connections; A.C in resistors, inductors and capacitors; A.C in R-L series, R-C series, R-L-C series and parallel circuits; Power in A. C. Circuits, power triangle. | -do-                |     |
| 6.      | 50-58           | Transformer and Machines                    | General construction and principle of core and shell type transformers; E.M.F equation and transformation ratio of transformers; Auto transformers; Basic principle of Electro-mechanical energy conversion.                                                                                                                                                                                                                                             | -do-                |     |

Signature of Teacher with Date

*[Signature]*  
 24/1/2026

Signature of HOD (E.E) / O.E.C

Q

| FAC NMSU G.P.<br>BILASPUR<br>KALSH |                | Department - Electrical Engg. (2 <sup>nd</sup> sem) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Subject- EM (ES 106)                                                  |                                                                                         | Enroll |
|------------------------------------|----------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------|
| SYLLABUS<br>COVERAGE               |                | Course- Diploma                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Duration -3 Years                                                     |                                                                                         |        |
|                                    |                | Total Periods (36 SL - 42, DC3 - 14)                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Theory-36                                                             |                                                                                         |        |
| Sr<br>no.                          | Period<br>No's | Topic                                               | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Instruction<br>Reference                                              | Additional/Other<br>Recommended                                                         |        |
| 1                                  | 1-12           | Basics of<br>Mechanics and<br>Force systems         | Significance and relevance of<br>Mechanics. Applied mechanics,<br>Statics, Dynamics, Space, time, mass,<br>periods, flexible body and rigid body,<br>kinetics and motion quantities, Units of<br>measurement (SI units) - Fundamental<br>units and derivatives<br>Force – unit, representation as a vector<br>and by flow's motion, characteristics<br>and effects of a force, Principle of<br>superposition of forces, Force system<br>and its classification.<br>Resolution of a force - Collinear<br>components of a force, resultant of a<br>force, Varignon's Theorem<br>Composition of forces – Resultant,<br>analytical method for determination of<br>resultant for concurrent, non-<br>concurrent and parallel co-planar force<br>systems – Law of triangle,<br>parallelogram and polygon of forces | R.S. Khanna,<br>Applied<br>Mechanics, S.<br>Chand & Co.<br>New Delhi. | R.K. Bansal<br>A text book<br>of<br>Engineering<br>Mechanics,<br>Laxmi<br>Publications. |        |
| 2                                  | 13-24          | Equilibrium                                         | Equilibrium and Equilibrium, Free<br>body and Free body diagram,<br>Analytical and graphical methods of<br>solving equilibrium. Lami's<br>Theorem – statement and explanation,<br>Application for various engineering<br>problems. Types of beam, supports<br>(simple, hinged, roller and fixed) and<br>loads acting on beam (vertical point<br>load, uniformly distributed load,<br>beam reaction for cantilever, simply<br>supported beam with or without<br>overhang – subjected to combination<br>of Point load and uniformly<br>distributed load.<br>Beam reaction graphically for simply<br>supported beam subjected to vertical<br>point loads only.                                                                                                                                                  | — — — — —                                                             | — — — — —                                                                               |        |
| 3                                  | 25-35          | Friction                                            | Friction and its relevance in<br>engineering, types and laws of<br>friction, limiting equilibrium,<br>limiting friction, coefficient of<br>friction, angle of friction, angle of<br>repose, relation between co-<br>efficient of friction and angle of<br>friction.<br>Equilibrium of bodies on level<br>surface subjected to force parallel and<br>normal to plane. Equilibrium of<br>bodies on inclined plane subjected to<br>force parallel to the plane only.                                                                                                                                                                                                                                                                                                                                            | — — — — —                                                             | — — — — —                                                                               |        |

|   |       |                                |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                   |                                                                                   |  |
|---|-------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| 4 | 35-45 | Centroid and Centre of gravity | Centroid of geometrical plane figures (square, rectangle, triangle, circle, semi-circle, quarter circle). Centroid of composite figure composed of not more than two geometrical figures. Centre of Gravity of simple solids (Cube, cylinder, cone, cylinder, sphere, hemisphere). Centre of gravity of composite solids composed of not more than two simple solids.                                                    |  |  |  |
| 5 | 45-50 | Simple lifting machine         | Simple lifting machine, load, effort, mechanical advantage, applications and advantages. Velocity ratio, efficiency of machines, law of machines. Ideal machine, friction in machines, maximum Mechanical advantage and efficiency, reversible and non-reversible machines, conditions for reversibility. Velocity ratios of simple axle and wheel, Differential axle and wheel, Worm and worm wheel, Simple screw jack. |  |  |  |

|          |            |
|----------|------------|
| Approved | 18/06/2024 |
| Date     | 29/6/24    |



Examiner: Raymond Engineering      Supervisor: End Ganesan Engineering (Engineers)

Subject: Introduction to IT Unit      Session: 2020/2021-1st, 2021/21

Time: 1-1:10 Friday 47.5

Teacher: E. Sathya Devi

| Cheque  |      | Detail of Candidate                                                                                                                                                                                                                                           |  | Remarks |
|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|
| Sl. No. | Week |                                                                                                                                                                                                                                                               |  |         |
| 1       | 2nd  | To identify the various hardware components of computer system.                                                                                                                                                                                               |  |         |
|         | 3rd  | To assemble hardware components of Computer System.                                                                                                                                                                                                           |  |         |
|         | 4th  | To write documents (if an computer system).                                                                                                                                                                                                                   |  |         |
|         | 5th  | To select the various software offered in the package, creating new folder and new file on the working.                                                                                                                                                       |  |         |
|         | 6th  | To work on software and hardware (hardware course - internal hardware), setting up desktop background on browser and multi media software settings creation.                                                                                                  |  |         |
| 2       | 2nd  | To open word engine (format and style) and insert different information using the word engine. Creating a e-mail account.                                                                                                                                     |  |         |
|         | 3rd  | To edit various e-governance (e-governance) and understanding the various e-governance.                                                                                                                                                                       |  |         |
|         | 4th  | Supporting, creating and deleting a document, creating file, saving content to save document (Word), protecting file, giving password protection for a file, setting margins, tab settings, text, creating, printing text, cut, copy, paste using text files. |  |         |
|         | 5th  | Supporting a document, creating and editing, insert, and create.                                                                                                                                                                                              |  |         |
|         | 6th  | Working on MS - EXCEL - Creating a worksheet (1 sheet), Copy, Paste and change the cells and use various Formatting features.                                                                                                                                 |  |         |
| 3       | 2nd  | Using formula and function present worksheet for doing simple maths of two columns and perform the following:                                                                                                                                                 |  |         |
|         | 3rd  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
|         | 4th  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
|         | 5th  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
|         | 6th  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
| 4       | 2nd  | (1) Create a report for the student (2)                                                                                                                                                                                                                       |  |         |
|         | 3rd  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
|         | 4th  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
|         | 5th  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |
|         | 6th  | (1) Calculate the student exam total and average (2)                                                                                                                                                                                                          |  |         |

Teacher: Raymond Engineering      Supervisor: End Ganesan Engineering (Engineers)

Subject: Introduction to IT Unit      Session: 2020/2021-1st, 2021/21

Time: 1-1:10 Friday 47.5

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**"PVC" 408: Civil Engineering (H.P.)**

**Lesson Five: Surveying**

**Course: Engineering**

**Semester: 2nd Semester**

**Subject: Surveying for 2nd Semester**

**Section: 2024/2025, July 2025**

**Teacher: Dr. Sadeq Saeed**

| Class<br>year | Week | Topic | Chapter<br>Description            | Exercises |
|---------------|------|-------|-----------------------------------|-----------|
| 1             | 200  | 1.1   | UNIT 1:<br>Basics of<br>Surveying |           |
| 1             | 201  | 1.2   | Basics of<br>Surveying            |           |
| 1             | 202  | 1.3   | Basics of<br>Surveying            |           |
| 1             | 203  | 1.4   | Basics of<br>Surveying            |           |
| 1             | 204  | 1.5   | Basics of<br>Surveying            |           |
| 1             | 205  | 1.6   | Basics of<br>Surveying            |           |
| 1             | 206  | 1.7   | Basics of<br>Surveying            |           |
| 1             | 207  | 1.8   | Basics of<br>Surveying            |           |
| 1             | 208  | 1.9   | Basics of<br>Surveying            |           |
| 1             | 209  | 1.10  | Basics of<br>Surveying            |           |
| 1             | 210  | 1.11  | Basics of<br>Surveying            |           |
| 1             | 211  | 1.12  | Basics of<br>Surveying            |           |
| 1             | 212  | 1.13  | Basics of<br>Surveying            |           |
| 1             | 213  | 1.14  | Basics of<br>Surveying            |           |
| 1             | 214  | 1.15  | Basics of<br>Surveying            |           |
| 1             | 215  | 1.16  | Basics of<br>Surveying            |           |
| 1             | 216  | 1.17  | Basics of<br>Surveying            |           |
| 1             | 217  | 1.18  | Basics of<br>Surveying            |           |
| 1             | 218  | 1.19  | Basics of<br>Surveying            |           |
| 1             | 219  | 1.20  | Basics of<br>Surveying            |           |
| 1             | 220  | 1.21  | Basics of<br>Surveying            |           |
| 1             | 221  | 1.22  | Basics of<br>Surveying            |           |
| 1             | 222  | 1.23  | Basics of<br>Surveying            |           |
| 1             | 223  | 1.24  | Basics of<br>Surveying            |           |
| 1             | 224  | 1.25  | Basics of<br>Surveying            |           |
| 1             | 225  | 1.26  | Basics of<br>Surveying            |           |
| 1             | 226  | 1.27  | Basics of<br>Surveying            |           |
| 1             | 227  | 1.28  | Basics of<br>Surveying            |           |
| 1             | 228  | 1.29  | Basics of<br>Surveying            |           |
| 1             | 229  | 1.30  | Basics of<br>Surveying            |           |
| 1             | 230  | 1.31  | Basics of<br>Surveying            |           |
| 1             | 231  | 1.32  | Basics of<br>Surveying            |           |
| 1             | 232  | 1.33  | Basics of<br>Surveying            |           |
| 1             | 233  | 1.34  | Basics of<br>Surveying            |           |
| 1             | 234  | 1.35  | Basics of<br>Surveying            |           |
| 1             | 235  | 1.36  | Basics of<br>Surveying            |           |
| 1             | 236  | 1.37  | Basics of<br>Surveying            |           |
| 1             | 237  | 1.38  | Basics of<br>Surveying            |           |
| 1             | 238  | 1.39  | Basics of<br>Surveying            |           |
| 1             | 239  | 1.40  | Basics of<br>Surveying            |           |
| 1             | 240  | 1.41  | Basics of<br>Surveying            |           |
| 1             | 241  | 1.42  | Basics of<br>Surveying            |           |
| 1             | 242  | 1.43  | Basics of<br>Surveying            |           |
| 1             | 243  | 1.44  | Basics of<br>Surveying            |           |
| 1             | 244  | 1.45  | Basics of<br>Surveying            |           |
| 1             | 245  | 1.46  | Basics of<br>Surveying            |           |
| 1             | 246  | 1.47  | Basics of<br>Surveying            |           |
| 1             | 247  | 1.48  | Basics of<br>Surveying            |           |
| 1             | 248  | 1.49  | Basics of<br>Surveying            |           |
| 1             | 249  | 1.50  | Basics of<br>Surveying            |           |
| 1             | 250  | 1.51  | Basics of<br>Surveying            |           |
| 1             | 251  | 1.52  | Basics of<br>Surveying            |           |
| 1             | 252  | 1.53  | Basics of<br>Surveying            |           |
| 1             | 253  | 1.54  | Basics of<br>Surveying            |           |
| 1             | 254  | 1.55  | Basics of<br>Surveying            |           |
| 1             | 255  | 1.56  | Basics of<br>Surveying            |           |
| 1             | 256  | 1.57  | Basics of<br>Surveying            |           |
| 1             | 257  | 1.58  | Basics of<br>Surveying            |           |
| 1             | 258  | 1.59  | Basics of<br>Surveying            |           |
| 1             | 259  | 1.60  | Basics of<br>Surveying            |           |
| 1             | 260  | 1.61  | Basics of<br>Surveying            |           |
| 1             | 261  | 1.62  | Basics of<br>Surveying            |           |
| 1             | 262  | 1.63  | Basics of<br>Surveying            |           |
| 1             | 263  | 1.64  | Basics of<br>Surveying            |           |
| 1             | 264  | 1.65  | Basics of<br>Surveying            |           |
| 1             | 265  | 1.66  | Basics of<br>Surveying            |           |
| 1             | 266  | 1.67  | Basics of<br>Surveying            |           |
| 1             | 267  | 1.68  | Basics of<br>Surveying            |           |
| 1             | 268  | 1.69  | Basics of<br>Surveying            |           |
| 1             | 269  | 1.70  | Basics of<br>Surveying            |           |
| 1             | 270  | 1.71  | Basics of<br>Surveying            |           |
| 1             | 271  | 1.72  | Basics of<br>Surveying            |           |
| 1             | 272  | 1.73  | Basics of<br>Surveying            |           |
| 1             | 273  | 1.74  | Basics of<br>Surveying            |           |
| 1             | 274  | 1.75  | Basics of<br>Surveying            |           |
| 1             | 275  | 1.76  | Basics of<br>Surveying            |           |
| 1             | 276  | 1.77  | Basics of<br>Surveying            |           |
| 1             | 277  | 1.78  | Basics of<br>Surveying            |           |
| 1             | 278  | 1.79  | Basics of<br>Surveying            |           |
| 1             | 279  | 1.80  | Basics of<br>Surveying            |           |
| 1             | 280  | 1.81  | Basics of<br>Surveying            |           |
| 1             | 281  | 1.82  | Basics of<br>Surveying            |           |
| 1             | 282  | 1.83  | Basics of<br>Surveying            |           |
| 1             | 283  | 1.84  | Basics of<br>Surveying            |           |
| 1             | 284  | 1.85  | Basics of<br>Surveying            |           |
| 1             | 285  | 1.86  | Basics of<br>Surveying            |           |
| 1             | 286  | 1.87  | Basics of<br>Surveying            |           |
| 1             | 287  | 1.88  | Basics of<br>Surveying            |           |
| 1             | 288  | 1.89  | Basics of<br>Surveying            |           |
| 1             | 289  | 1.90  | Basics of<br>Surveying            |           |
| 1             | 290  | 1.91  | Basics of<br>Surveying            |           |
| 1             | 291  | 1.92  | Basics of<br>Surveying            |           |
| 1             | 292  | 1.93  | Basics of<br>Surveying            |           |
| 1             | 293  | 1.94  | Basics of<br>Surveying            |           |
| 1             | 294  | 1.95  | Basics of<br>Surveying            |           |
| 1             | 295  | 1.96  | Basics of<br>Surveying            |           |
| 1             | 296  | 1.97  | Basics of<br>Surveying            |           |
| 1             | 297  | 1.98  | Basics of<br>Surveying            |           |
| 1             | 298  | 1.99  | Basics of<br>Surveying            |           |
| 1             | 299  | 1.100 | Basics of<br>Surveying            |           |

Students should pay 24.5. 2025

*[Signature]*

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Sadeq Saeed