

LESSON PLAN - AY 2026-27 (W)

Discipline : Mechanical Engg.	Semester : 3rd Session 2026-27 (w)	Name of the Teachnig Faculty : Sri Manash Kumar Behera
Subject: Strength Of Material	No.of days/Per weeks Class Alloted Weeks :3	Semester from date : 01.07.2026 to Date : 05.11.2026
		No.of Weeks : 19 W.e.f: 01.07.2026 (19 weeks)
Weeks	Class day	Theory
1st	1st	CH.1 Simple Stresses and Strains: Types of forces
	2nd	Stress, Strain and their nature
	3rd	Mechanical properties of common engineering materials
2nd	1st	Significance of various points on stress – strain diagram for M.S. specimens
	2nd	Significance of various points on stress – strain diagram for C.I. specimens
	3rd	Significance of factor of safety
3rd	1st	Elastic constants. Relation between elastic constants
	2nd	Stress and strain values in bodies of uniform section under the influence of normal forces
	3rd	Stress and strain values in bodies of of composite section under the influence of normal forces
4th	1st	Thermal stresses in bodies of uniform section& composite sections
	2nd	Related numerical problems on the above topics.
	3rd	Strain Energy: Strain energy or resilience, proof resilience and modulus of resilience; Derivation of Strain energy for the Gradually applied load,
5th	1st	Derivation of Strain energy for the Suddenly applied load , Impact/ shock load
	2nd	Related numerical problems
	3rd	CH.2 Shear Force & Bending Moment Diagrams: Types of beams with examples: a)Cantilever beam, b)Simply supported beam, c)Overhanging beam, d)Continuous beam, e) Fixed beam; Types of Loads – Point load, UDL and UVL
6th	1st	Definition and explanation of shear force and bending moment;
	2nd	Drawing the S.F and B.M. diagrams by the analytical method only for Cantilever with point loads and uniformly distributed load
	3rd	Drawing the S.F and B.M. diagrams by the analytical method only for Simply supported beam with point loads, UDL
7th	1st	Drawing the S.F and B.M. diagrams by the analytical method only for Cantilever with point loads,
	2nd	Drawing the S.F and B.M. diagrams by the analytical method Overhanging beam with point loads at the centre & at free ends,
8th	3rd	Drawing the S.F and B.M. diagrams by the analytical method Over hanging beam with UDL throughout Combination of point and UDL for the above; Related numerical problems.
9th	1st	CH.3. Theory of Simple Bending and Deflection of Beams: Explanation of terms: Neutral layer, Neutral Axis, Modulus of Section, Moment of Resistance, Bending stress, Radius of curvature
	2nd	Assumptions in theory of simple bending;
	3rd	Bending Equation $M/I = \sigma/Y = E/R$ with derivation

10th	1st	Problems involving calculations of bending stress, modulus of section and moment of resistance; Calculation of safe loads and safe span and dimensions of cross- section
	2nd	Definition and explanation of deflection as applied to beams
	3rd	Deflection formulae without proof for cantilever and simply supported beams with point load only (Standard cases only);
11th	1st	Deflection formulae without proof for cantilever and simply supported
	2nd	Related numerical problems.
	3rd	Ch iv. Torsion in Shafts and Springs: Definition and function of shaft
12th	1st	Calculation of polar M.I. for solid shafts & hollow shafts
	2nd	Assumptions in simple torsion. Derivation of the equation $T/J = f_s/R = G\theta/L$
	3rd	Problems on design of shaft based on strength and rigidity
13th	1st	Numerical Problems related to comparison of strength and weight of solid and hollow shafts
	2nd	Numerical Problems related to comparison of strength and weight of solid and hollow shafts
	3rd	Classification of springs; Nomenclature of closed coil helical spring
14th	1st	Deflection formula for closed coil helical spring (without derivation);
	2nd	stiffness of spring
	3rd	Numerical problems on closed coil helical spring to find safe load,
15th	1st	Numerical problems on closed coil helical spring to find safe load, deflection, size of coil and number of coils.
	2nd	Ch-V: Thin Cylindrical Shells: Explanation of longitudinal and hoop stresses in the light of circumferential and longitudinal, failure of shell;
	3rd	Derivation of expressions for the Longitudinal and hoop stress for seamless
16th	1st	Derivation of expressions for the Longitudinal and hoop stress for seamshells
	2nd	Related numerical Problems for safe thickness and safe working pressure
	3rd	Solving Numerical questions
17th	1st & 2nd	Revision of Unit-I
	3rd	Revision of Unit-II
18th	1st & 2nd	Revision of Unit-II
	3rd	Revision of Unit-III
19th	1st & 2nd	Revision of Unit-IV
	3rd	Revision of Unit-V

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2026-27 (Winter)

Lesson Plan 2026-27 (Winter)

Discipline Mechanical Engg.	Semester: 3rd	Name of the Faculty- SRI MANASH KUMAR BEHERA	
Subject: Thermal Engineering-I LAB (MEPC 217)	No. of days/ week class Allotted class:04	Semester from date -01.07.2026 No. of Weeks : 19	To date 05.11.2026 W.e.f: 01.07.2026 (19 Weeks)
Weeks	CLASS DAYS ,	Practical	
01 ST	1 ST	Flash & Fire point tests using Able's Cleveland/ Penskey Martin Apparatus	
	2 ND	Flash & Fire point tests using Able's Cleveland/ Penskey Martin Apparatus	
	3 RD	Flash & Fire point tests using Able's Cleveland/ Penskey Martin Apparatus	
	4 TH	Flash & Fire point tests using Able's Cleveland/ Penskey Martin Apparatus	
02 ND	1 ST	Record Checking & Viva-Voce	
	2 ND	Viscosity measurement using Saybolt Viscometer	
	3 RD	Viscosity measurement using Saybolt Viscometer	
	4 TH	Viscosity measurement using Saybolt Viscometer	
03 RD	1 ST	Record Checking & Viva-Voce	
	2 ND	Calorific value tests using Bomb Calorimeter (solid and Liquid Fuels)	
	3 RD	Calorific value tests using Junkers Gas calorimeter (Gaseous Fuel)	
	4 TH	Calorific value tests using Junkers Gas calorimeter (Gaseous Fuel)	
04 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Carbon residue test using Conrad son's apparatus	
	3 RD	Carbon residue test using Conrad son's apparatus	
	4 TH	Carbon residue test using Conrad son's apparatus	
05 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Assembling and Disassembling of IC engines	
	3 RD	Assembling and Disassembling of IC engines	
	4 TH	Assembling and Disassembling of IC engines	
06 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Port timing diagram of Petrol engine	
	3 RD	Port timing diagram of Petrol engine	
	4 TH	Port timing diagram of Petrol engine	
07 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Port timing diagram of Diesel engine	
	3 RD	Port timing diagram of Diesel engine	
	4 TH	Port timing diagram of Diesel engine	
08 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Valve timing diagram of Petrol engine	
	3 RD	Valve timing diagram of Petrol engine	
	4 TH	Valve timing diagram of Petrol engine	
09 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Valve timing diagram of diesel engine	
	3 RD	Valve timing diagram of diesel engine	
	4 TH	Valve timing diagram of diesel engine	
10 TH	1 ST	Record Checking & Viva-Voce	
	2 ND	Study of Petrol and Diesel engine components and Models	
	3 RD	Study of Petrol and Diesel engine components and Models	
	4 TH	Study of Petrol and Diesel engine components and Models	

11 TH	1 ST	Record Checking & Viva-Voce
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
12 TH	1 ST	Revision
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
13 TH	1 ST	Revision
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
14 TH	1 ST	Revision
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
15 TH	1 ST	Revision
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
16 TH	1 ST	Revision
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
17 TH	1 ST	Revision
	2 ND	Revision
	3 RD	Revision
	4 TH	Viva-voce
18 TH	1 ST	Revision
	2 ND	Viva-voce
	3 RD	Viva-voce
	4 TH	Viva-voce
19 TH	1 ST	Revision
	2 ND	Viva-voce
	3 RD	Viva-voce
	4 TH	Viva-voce

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LESSON PLAN (2026-27) (W)

Discipline : Mechanical Engg.	Semester : 5th Session 2026-27 (w)	Name of the Teachnig Faculty : Sri Manash Kumar Behera
Subject: Design of Machine Elements (TH 2) (MEPC03)	No.of days/Per weeks Class Alloted Weeks :3	Semester from date : 01.07.2026 to Date : 05.11.2026
		No.of Weeks : 19 W.e.f: 01.07.2026 (19 weeks)
Weeks	Class day	Theory
1st	1st	Introduction to Design: Machine Design philosophy and Procedures ,General Considerations in Machine Design
	2nd	Fundamentals: Types of loads, concepts of stress, Strain
	3rd	Stress – Strain Diagram for Ductile and Brittle Materials
2nd	1st	Types of Stresses Bearing pressure Intensity; Crushing; Bending and Torsion
	2nd	Principal Stresses; Simple Numericals
	3rd	Creep strain and Creep Curve; Fatigue; S-N curve; Endurance Limit; Factor of Safety, Stress Concentration
3rd	1st	Properties of Engineering materials : Designation of materials as per IS
	2nd	Introduction to International standards & advantages of standardization
	3rd	Use of design data book
4th	1st	Use of standards in design and preferred numbers series
	2nd	Theories of Elastic Failures; Principal normal stress theory;
	3rd	Maximum shear stress theory & Maximum distortion energy theory.
5th	1st	Design of simple machine parts : Cotter Joint , Knuckle Joint & Turnbuckle
	2nd	Design of Levers: Hand / Foot Lever & Bell Crank Lever
	3rd	Design of C–Clamp , Off-set links , Overhang Crank
6th	1st	Arm of Pulley Antifriction Bearings: Classification of Bearings
	2nd	Sliding contact & Rolling contact beraring
	3rd	Terminology of Ball bearings: Life Load relationship,
7th	1st	Basic static load rating and Basic dynamic load rating
	2nd	limiting speed , Selection of ball bearings using manufacturer's catalogue.
	3rd	Design of Shafts, Keys, Couplings and Spur Gears:Types of Shafts; Shaft materials; Standard Sizes
8th	1st	Design of Shafts (Hollow and Solid) using strength and rigidity criteria
	2nd	ASME code of design for line shafts supported between bearings with one or two pulleys in between or one overhung pulley
	3rd	Design of Sunk Keys; Effect of Key-ways on strength of shaft
9th	1st	Design of Couplings – Muff Coupling, Protected type Flange Coupling, Bush-pin type flexible coupling
	2nd	Spur gear design considerations
	3rd	Lewis equation for static beam strength of spur gear teeth

10th	1st	Power transmission capacity of spur gears in bending.
	2nd	Design of Power Screws: Thread Profiles used for power Screws - Relative merits and demerits of each
	3rd	Torque required to overcome thread friction
11th	1st	Self-locking and overhauling property
	2nd	Efficiency of power screws .Types of stresses induced; Design of Screw Jack; Toggle Jack.
	3rd	Design of springs: Classification and Applications of Springs; Spring terminology; Materials and Specifications
12th	1st	Stresses in springs; Wahl's correction factor
	2nd	Deflection of springs; Energy stored in springs
	3rd	Design of Helical, Tension and Compression springs subjected to uniform applied loads I.C. engine valves, Weighing balance
13th	1st	Design of Helical, Tension and Compression springs subjected to uniform applied loads Railway buffers.
	2nd	Governor springs , Leaf springs: Construction and Application.
	3rd	Design of Fasteners: Stresses in Screwed fasteners; Bolts of Uniform Strength
14th	1st	Design of Bolted Joints subjected to eccentric loading
	2nd	Design of Parallel and Transverse fillet welds . Axially loaded symmetrical section;
	3rd	Merits and demerits of screwed and welded joints
15th	1st	Ergonomics & Aesthetic consideration in design: Ergonomics of Design: Man-Machine relationship
	2nd	Design of Equipment for control, environment & safety
	3rd	Esthetic considerations regarding shape, size, color & surface finish.
16th	1st & 2nd	Revision of Unit- I
	3rd	Revision of Unit-II
17th	1st & 2nd	Revision of Unit-II & III
	3rd	Revision of Unit-III
18th	1st & 2nd	Revision of Unit-IV
	3rd	Revision of Unit-IV
19th	1st & 2nd	Revision of Unit-IV & V
	3rd	Revision of Unit-V

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LESSON PLAN (2026-27) (W)

Discipline : Mechanical Engg.	Semester : 5th Session 2026-27 (w)	Name of the Teachnig Faculty : Sri Manash Kumar Behera
Subject: Industrial Engineering & Management (TH 3A) (MEPC301A)	No.of days/Per weeks Class Alloted Weeks :3	Semester from date : 01.07.2026 to Date : 05.11.2026
		No.of Weeks : 19 W.e.f: 01.07.2026 (19 weeks)
Weeks	Class day	Theory
1st	1st	Plant Engineering: Plant Selection of site of industry; Plant layout
	2nd	Principles of a good layout; Types; Process; Product and Fixed position
	3rd	Techniques to improve Layout; Principles of Material handling equipment; Plant maintenance
2nd	1st	Importance; Break down maintenance; Preventive maintenance and Scheduled maintenance.
	2nd	Plant Safety : Importance; Accident: Causes and Cost of an Accident, Accident Proneness
	3rd	Prevention of Accidents; Industrial disputes; Settlement of Industrial disputes; Collective bargaining
3rd	1st	Conciliation; Mediation; Arbitration
	2nd	Indian Factories Act 1948 and its provisions related to health, welfare and safety.
	3rd	Work Study : Productivity; Standard of living; Method of improving Productivity
4th	1st	Objectives; Importance of good working conditions
	2nd	Method Study : Definition; Objectives; Selection of a job for method study
	3rd	Basic procedure for conduct of Method study; Tools used; Operation process
5th	1st	Flow process chart; Two handed process chart; Man Machine chart; String diagram and flow diagram
	2nd	Work Measurement : Definition; Basic procedure in making a time study; Employees rating factor
	3rd	Application of time allowances: Rest, Personal, Process, Special and Policy allowances
6th	1st	Calculation of standard time; Numerical Problems
	2nd	Basic concept of production study; Techniques of Work Measurement ,Ratio delay study
	3rd	Synthesis from standard data; Analytical estimating and Predetermined Motion
7th	1st	Production Planning and Control :Introduction; Major functions of Production Planning and Control
	2nd	Preplanning; Methods of forecasting; Routing and Scheduling
	3rd	Dispatching and Controlling; Concept of Critical Path Method (CPM)
8th	1st	Types of Production: Mass Production, Batch Production and Job Order
	2nd	Characteristics; Economic Batch Quantity (EBQ); Principles of Product and Process Planning; Make or Buy decision; Numerical problems.
	3rd	Quality Control:Definition : Objectives; Types of Inspection: First piece, Floor and Centralized Inspection

9th	1st	Advantages and Disadvantages; Statistical Quality Control
	2nd	Types of Measurements; Method of Variables; Method of Attributes; Uses of X, R, p and c charts
	3rd	Operating Characteristics curve (O.C curve) Sampling Inspection : Single and Double Sampling plan
10th	1st	Concept of ISO 9001:2008 Quality Management System
	2nd	Registration/Certification procedure; Benefits of ISO to the organization.
	3rd	Principles of Management :Definition of Management; Administration; Organization; F.W. Taylor's and Henry Fayol's Principles of Management
11th	1st	Functions of Manager; Types of Organization: Line, Staff, Taylor's Pure functional types
	2nd	Line and staff and committee type; Directing; Leadership; Styles of Leadership; Qualities of a good leader
	3rd	Motivation; Positive and Negative Motivation; Modern Management Techniques; Just In Time; Total Quality Management (TQM)
12th	1st	Quality circle; Zero defect concept; 5S Concept; Management Information Systems
	2nd	Personnel Management:Responsibility of Human Resource Management; Selection Procedure
	3rd	Training of Workers; Apprentice Training; On the Job training and Vestibule School Training; Job Evaluation and Merit Rating
13th	1st	Objectives and Importance; Wages and Salary Administration; Components of Wages; Wage Fixation; Type of Wage Payment
	2nd	Halsey's 50% Plan, Rowan's Plan and Emerson's efficiency plan; Numerical Problems
	3rd	Financial Management : Fixed and Working Capital; Resources of Capital; Shares Preference and Equity Shares
14th	1st	Debentures; Type of debentures; Public Deposits; Factory Costing: Direct Cost; Indirect Cost; Factory Overhead
	2nd	Selling Price of a product; Profit; Numerical Problems
	3rd	Depreciation; Causes; Methods: Straight line, sinking fund and percentage on Diminishing Value Method; Numerical Problems
15th	1st	Material Management:Objectives of good stock control system; ABC analysis of Inventory
	2nd	Procurement and Consumption cycle; Minimum Stock
	3rd	Lead Time, Reorder Level-Economic Order Quantity problems; Supply Chain.
16th	1st & 2nd	Revision of Unit- I
	3rd	Revision of Unit-II
17th	1st & 2nd	Revision of Unit-II & III
	3rd	Revision of Unit-III
18th	1st & 2nd	Revision of Unit-IV
	3rd	Revision of Unit-IV
19th	1st & 2nd	Revision of Unit-IV & V
	3rd	Revision of Unit-V

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LESSON PLAN

Discipline : Mechanical Engg.	Semester : 5TH	Name of the Teachnig Faculty : Sri Manash Kumar Behera	
Subject: CAMD LAB	No.of days/Per weeks Class Alloted Weeks :4	Semester from date : 01.07.2026 No.of Weeks : 19	To Date : 05.11.2026 W.e.f: 01.07.2026 (18 weeks)
Weeks	Class day	Theory	
1st	1st	Sl. No. 1: Introduction to CAD software: Interface overview and file management	
	2nd	Standard custom templates creation, working with layers, line weights, and colors	
	3rd	and limits configuration	
	4th	Drawing using Absolute and Relative coordinates systems (Cartesian and Polar)	
2nd	1st	Record checking	
	2nd	Sl. No. 2: Drawing aids and editing tools: Grid and snap settings, Ortho tracking ,Using Polar tracking and configuring Object snaps (OSNAP) settings	
	3rd	Object selection methods; Basic modify commands: move, copy, mirror, and offset	
	4th	Advanced modify commands: trim, extend, rotate, scale, and array	
3rd	1st	Viva-voce assessment and record checking	
	2nd	Sl. No. 3: Annotation, hatching and blocks: Dimensioning (linear, aligned, angular, radius)	
	3rd	Setting up Dimension styles and configurations; Text styles and leaders execution	
	4th	Applying standard Hatching patterns for materials classification	
4th	1st	Creating local blocks, inserting blocks, and creating global W-blocks for libraries	
	2nd	Viva-voce assessment and record checking	
	3rd	Sl. No. 4: Isometric drawing, printing and plotting: Creating isometric drawings using isoplane	
	4th	Isometric dimensioning techniques and drafting of 3D-like geometric shapes in 2D space	
5th	1st	Setting up viewports, plotting layouts to specific engineering scales ,Managing Plot styles, line thickness configurations, and layout sheet setup	
	2nd	Viva-voce assessment and record checking	
	3rd	Sl. No. 5: Machine drawing practice and assembly: Sectional and plain elevation drawings	
	4th	Standard drawing conventions (BIS/ISO codes); Bill of Materials (BoM) / Part list generation	
6th	1st	Process of creating exploded views of multi-component assemblies ,Introduction to standard fasteners, keys, cotters, and pins configuration	
	2nd	Viva-voce assessment and record checking	
	3rd	Practice on 12 machine parts: Part 1 - Sleeve & Cotter Joint: Part modeling/drafting	
	4th	Assembly drafting and sectional view generation of Sleeve & Cotter Joint	
7th	1st	Part 2 - Spigot & Cotter Joint: Detailed drafting of Spigot and Socket ends	
	2nd	Complete assembly, dimensioning, and BoM generation of Spigot & Cotter Joint	
	3rd	Part 3 - Knuckle Joint: Drafting of individual fork end, eye end, and pin	
	4th	Final assembly drafting and full sectional front view of Knuckle Joint	

8th	1st	Part 4 - Stuffing Box: Drawing of body, gland, and brass bush components
	2nd	Assembly and sectional elevation showing gland packing arrangement for Stuffing Box
	3rd	Viva-voce assessment and record checking
	4th	Part 5 - Screw Jack: Detailed drafting of the cast iron body, nut, and screw spindle , Drafting tommy bar, cup, washer, and minor components of Screw Jack
9th	1st	Full sectional elevation assembly layout of Screw Jack with part ballooning , Dimensioning and bill of materials formatting for Screw Jack assembly
	2nd	Part 6 - Foot Step Bearing: Drafting of housing base, brass bush, and disc
	3rd	Shaft layout assembly with sectional view of Foot Step Bearing
	4th	Part 7 - Universal Coupling: Drafting of forks, center piece, and keys
10th	1st	Assembly configuration showing orthogonal views of Universal Coupling
	2nd	Part 8 - Plummer Block: Drafting of block base, cap, and upper/lower brasses
	3rd	Half-sectional front elevation assembly drawing of Plummer Block
	4th	Lab record notebook submission, checking, and corrections
11th	1st	Viva-voce assessment on 2D commands, BIS standards, and assembly steps
	2nd	Part 9 - Simple Eccentric: Component drawings of eccentric strap, sheave, and key
	3rd	Assembled view with exact orientation layout of Simple Eccentric
	4th	Part 10 - Machine Vice: Detailed component drafting of base, sliding jaw, and screw
12th	1st	Full assembly drawing with sectional properties of Machine Vice
	2nd	Part 11 - Connecting Rod: Drafting of the shank section, big end cap, and small end bush
	3rd	Sectional views showing bolt locking mechanisms of Connecting Rod
	4th	Part 12 - Protected Type Flanged Coupling: Drafting of matching flanges and keys
13th	1st	Complete assembly layout with protective rim boundary implementation
	2nd	Lab record notebook submission, checking, and corrections
	3rd	Viva-voce assessment and cross-checking dimensions of all 12 assemblies with standards
	4th	Review Exercise with Plotting out final 2D compiled sheets of assemblies to multi-page PDF sets
14th	1st	Sl. No. 6: 3D Drawing Basics and Modeling: Introduction to 3D workspace setup
	2nd	Utilizing User Coordinate System (UCS) changes and View Controls
	3rd	Creating basic 3D primitives: box, cylinder, cone, sphere
	4th	Creating basic 3D primitives: wedge, torus, and basic coordinate alignments
15th	1st	Advanced 3D features modeling: Extrude and Revolve commands execution ,
	2nd	Advanced 3D features modeling: Sweep and Loft operations execution
	3rd	Applying Boolean operations: Union, Subtract, and Intersect commands
	4th	3D Modification tools: 3D Rotate, 3D Move, 3D Array, and Edge Filletting
16th	1st	3D Part design: Converting a 2D drawing of a Flanged Coupling part to 3D
	2nd	3D Part design: Converting a 2D drawing of a Knuckle Joint part to 3D
	3rd	3D Assembly modeling techniques: Combining elements using 3D constraints
	4th	Generating 3D isometric views directly from completed 3D solid models
17th	1st	Generating 2D orthographic views (Front, Top, Side) automatically from 3D models
	2nd	Automated section view creation from solid models in paper layout space
	3rd	Introduction to export formats for 3D printing and CNC integration (.STL, .STEP, .IGES)
	4th	Advanced Rendering techniques, materials application, and visual styles selection

18th	1st	Revision Session: Rapid parametric modeling tips and custom macro shortcuts
	2nd	Submission of all lab output files (.DWG format) categorized into digital folders
	3rd	Comprehensive viva-voce
	4th	Comprehensive viva-voce
19th	1st	Comprehensive viva-voce
	2nd	Evaluation covering 2D assemblies and 3D modeling steps
	3rd	Evaluation, final laboratory record verification, and data submission
	4th	Evaluation, final laboratory record verification, and data submission

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20/06/2026

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20/06/26

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