

**ASIAN SCHOOL OF TECHNOLOGY, KHORDHA**

**ACADEMIC LESSON PLAN (WINTER-2026)**

**TH-1 SURVEYING (COURSE CODE: CEPC301)**

|                                  |                                                                 |                                 |                                                                 |
|----------------------------------|-----------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|
| Discipline:<br>Civil Engineering | Semester: 5 <sup>th</sup>                                       | No. of periods<br>available: 45 | Name of Teaching Faculty:<br>Swati Shree Lenka                  |
| Subject:<br>Surveying            | No. of Days/ per week<br>class allotted : 3<br>periods per week |                                 | Semester from: 02.07.2026 To<br>05.11.2026<br>No. of weeks : 15 |
| Week                             | Class Day                                                       |                                 | Topics to be covered                                            |
| 1 <sup>ST</sup>                  | 1 <sup>st</sup>                                                 | 1                               | Introduction to Surveying: definition, purpose and scope        |
|                                  | 2 <sup>nd</sup>                                                 | 1                               | Types of surveying: primary and secondary                       |
|                                  | 3 <sup>rd</sup>                                                 | 1                               | Plane, geodetic and hydrographic surveying                      |
| 2 <sup>ND</sup>                  | 4 <sup>th</sup>                                                 | 1                               | Cadastral, photogrammetry and aerial surveys                    |
|                                  | 5 <sup>th</sup>                                                 | 1                               | Principles of surveying; scales and RF                          |
|                                  | 6 <sup>th</sup>                                                 | 1                               | Engineer's scale and diagonal scale                             |
| 3 <sup>RD</sup>                  | 7 <sup>th</sup>                                                 | 1                               | Quiz on Unit I                                                  |
|                                  | 8 <sup>th</sup>                                                 | 1                               | Chain surveying: instruments and accessories                    |
|                                  | 9 <sup>th</sup>                                                 | 1                               | Metric chain, tapes, arrows and ranging rods                    |
| 4 <sup>TH</sup>                  | 10 <sup>th</sup>                                                | 1                               | Chaining, ranging and offsetting                                |
|                                  | 11 <sup>th</sup>                                                | 1                               | Errors in chaining and corrections                              |
|                                  | 12 <sup>th</sup>                                                | 1                               | Obstacles in chaining and ranging                               |
| 5 <sup>TH</sup>                  | 13 <sup>th</sup>                                                | 1                               | Field book and conventional signs                               |
|                                  | 14 <sup>th</sup>                                                | 1                               | Chain survey problems and applications                          |
|                                  | 15 <sup>th</sup>                                                | 1                               | Class Test covering Units I–II                                  |
| 6 <sup>TH</sup>                  | 16 <sup>th</sup>                                                | 1                               | Compass surveying: principles and components                    |
|                                  | 17 <sup>th</sup>                                                | 1                               | Prismatic compass and surveyor's compass                        |
|                                  | 18 <sup>th</sup>                                                | 1                               | Bearings and meridians                                          |
| 7 <sup>TH</sup>                  | 19 <sup>th</sup>                                                | 1                               | Whole circle and reduced bearings                               |
|                                  | 20 <sup>th</sup>                                                | 1                               | Conversion of bearings and back bearings                        |
|                                  | 21 <sup>st</sup>                                                | 1                               | Magnetic declination and dip                                    |
| 8 <sup>TH</sup>                  | 22 <sup>nd</sup>                                                | 1                               | Local attraction and corrections                                |
|                                  | 23 <sup>rd</sup>                                                | 1                               | Traverse computation and closing error                          |
|                                  | 24 <sup>th</sup>                                                | 1                               | Adjustment of closing error                                     |
| 9 <sup>TH</sup>                  | 25 <sup>th</sup>                                                | 1                               | Levelling: objectives and basic concepts                        |
|                                  | 26 <sup>th</sup>                                                | 1                               | Levels, staffs and temporary adjustments                        |
|                                  | 27 <sup>th</sup>                                                | 1                               | Differential and fly levelling                                  |
| 10 <sup>TH</sup>                 | 28 <sup>th</sup>                                                | 1                               | Profile and reciprocal levelling                                |

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|                  | 29 <sup>th</sup> | 1 | Contour concepts and contouring methods                                                                                             |
|                  | 30 <sup>th</sup> | 1 | Measurement of area by offsets and planimeter                                                                                       |
| 11 <sup>TH</sup> | 31 <sup>st</sup> | 1 | Revision of Units III–IV                                                                                                            |
|                  | 32 <sup>nd</sup> | 1 | Theodolite: components and temporary adjustments                                                                                    |
|                  | 33 <sup>rd</sup> | 1 | Measurement of horizontal angles                                                                                                    |
| 12 <sup>TH</sup> | 34 <sup>th</sup> | 1 | Measurement of vertical angles                                                                                                      |
|                  | 35 <sup>th</sup> | 1 | Traversing by included and deflection angles                                                                                        |
|                  | 36 <sup>th</sup> | 1 | Checks in open and closed traverse                                                                                                  |
| 13 <sup>TH</sup> | 37 <sup>th</sup> | 1 | Traverse computation by Bowditch and Transit rules                                                                                  |
|                  | 38 <sup>th</sup> | 1 | Revision of Theodolite Surveying                                                                                                    |
|                  | 39 <sup>th</sup> | 1 | Tacheometry: principles and instruments                                                                                             |
| 14 <sup>TH</sup> | 40               | 1 | Tacheometric constants and distance measurement                                                                                     |
|                  | 41 <sup>st</sup> | 1 | Methods and applications of tacheometry                                                                                             |
|                  | 42 <sup>nd</sup> | 1 | Curves: simple circular curves and terminology                                                                                      |
| 15 <sup>TH</sup> | 43 <sup>rd</sup> | 1 | Setting out curves by offsets and Rankine's method                                                                                  |
|                  | 44 <sup>th</sup> | 1 | Class Test covering Units III–VI                                                                                                    |
|                  | 45 <sup>th</sup> | 1 | Advanced surveying equipment: EDM<br>Total station: components and field applications<br>Remote sensing, GPS, GIS and DGPS overview |

*Sunitishree Lenka.*  
Signature of Teaching Faculty

**ASIAN SCHOOL OF TECHNOLOGY, KHORDHA**

**ACADEMIC LESSON PLAN (WINTER-2026)**

**TH-2 DESIGN RCC STRUCTURE (COURSE CODE: CEPC309)**

|                                  |                                                                 |                                 |                                                                         |
|----------------------------------|-----------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------|
| Discipline:<br>Civil Engineering | Semester: 5 <sup>th</sup>                                       | No. of periods<br>available: 45 | Name of Teaching Faculty:<br>Jyoti Sankar Panda                         |
| Subject:<br>Design Rcc Structure | No. of Days/ per week<br>class allotted : 4<br>periods per week |                                 | Semester from: 02.07.2026<br>To 05.11.2026<br>No. of weeks : 15         |
| Week                             | Class Day                                                       |                                 | Topics to be covered                                                    |
| 1 <sup>ST</sup>                  | 1 <sup>st</sup>                                                 | 1                               | Introduction to RCC Design,<br>Limit State Method, Design<br>Philosophy |
|                                  | 2 <sup>nd</sup>                                                 | 1                               | Working Stress Method vs<br>Limit State Method                          |
|                                  | 3 <sup>rd</sup>                                                 | 1                               | Loads, Partial Safety Factors,<br>Material Properties                   |
| 2 <sup>ND</sup>                  | 4 <sup>th</sup>                                                 | 1                               | Design of Singly Reinforced<br>Beam – Concepts                          |
|                                  | 5 <sup>th</sup>                                                 | 1                               | Analysis and Design of Singly<br>Reinforced Beam                        |
|                                  | 6 <sup>th</sup>                                                 | 1                               | Design Examples on Singly<br>Reinforced Beam                            |
| 3 <sup>RD</sup>                  | 7 <sup>th</sup>                                                 | 1                               | Doubly Reinforced Beam –<br>Need and Applications                       |
|                                  | 8 <sup>th</sup>                                                 | 1                               | Design of Doubly Reinforced<br>Beam                                     |
|                                  | 9 <sup>th</sup>                                                 | 1                               | Shear Stress in RC Members                                              |
| 4 <sup>TH</sup>                  | 10 <sup>th</sup>                                                | 1                               | Design of Shear<br>Reinforcement                                        |
|                                  | 11 <sup>th</sup>                                                | 1                               | Bond Stress and<br>Development Length<br>Concepts                       |
|                                  | 12 <sup>th</sup>                                                | 1                               | Determination of<br>Development Length                                  |
| 5 <sup>TH</sup>                  | 13 <sup>th</sup>                                                | 1                               | Anchorage Length, Hooks<br>and Bends                                    |
|                                  | 14 <sup>th</sup>                                                | 1                               | Curtailement and Lapping of<br>Bars                                     |
|                                  | 15 <sup>th</sup>                                                | 1                               | Serviceability Limit States –<br>Introduction                           |
| 6 <sup>TH</sup>                  | 16 <sup>th</sup>                                                | 1                               | Numerical Problems on<br>Shear, Bond and<br>Development Length          |
|                                  | 17 <sup>th</sup>                                                | 1                               | Revision of Unit I                                                      |
|                                  | 18 <sup>th</sup>                                                | 1                               | Class Test on Unit I                                                    |
| 7 <sup>TH</sup>                  | 19 <sup>th</sup>                                                | 1                               | Introduction to<br>Compression Members                                  |

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|                  | 20 <sup>th</sup> | 1 | Effective Length of Columns                      |
|                  | 21 <sup>st</sup> | 1 | Short and Long Columns                           |
| 8 <sup>TH</sup>  | 22 <sup>nd</sup> | 1 | Minimum Eccentricity and IS 456 Provisions       |
|                  | 23 <sup>rd</sup> | 1 | Design of Axially Loaded Square Columns          |
|                  | 24 <sup>th</sup> | 1 | Design of Rectangular Columns                    |
| 9 <sup>TH</sup>  | 25 <sup>th</sup> | 1 | Design of Circular Columns                       |
|                  | 26 <sup>th</sup> | 1 | Numerical Problems on Column Design              |
|                  | 27 <sup>th</sup> | 1 | Quiz on Column Design                            |
| 10 <sup>TH</sup> | 28 <sup>th</sup> | 1 | Introduction to Flanged Beams                    |
|                  | 29 <sup>th</sup> | 1 | T-Beams and L-Beams – Effective Width            |
|                  | 30 <sup>th</sup> | 1 | Neutral Axis in Flanged Sections                 |
| 11 <sup>TH</sup> | 31 <sup>st</sup> | 1 | Design of T-Beams<br>Design of L-Beams           |
|                  | 32 <sup>nd</sup> | 1 | Numerical Problems on Flanged Beams              |
|                  | 33 <sup>rd</sup> | 1 | Revision of Units II & III                       |
| 12 <sup>TH</sup> | 34 <sup>th</sup> | 1 | Introduction to Slab Systems                     |
|                  | 35 <sup>th</sup> | 1 | One-Way Slabs – Analysis and Design              |
|                  | 36 <sup>th</sup> | 1 | One-Way Slab Design Examples                     |
| 13 <sup>TH</sup> | 37 <sup>th</sup> | 1 | Deflection Check and Serviceability Requirements |
|                  | 38 <sup>th</sup> | 1 | Two-Way Slabs – Design Concepts                  |
|                  | 39 <sup>th</sup> | 1 | Design of Two-Way Slabs                          |
| 14 <sup>TH</sup> | 40               | 1 | Detailing of Slabs                               |
|                  | 41 <sup>st</sup> | 1 | Numerical Problems on Slab Design                |
|                  | 42 <sup>nd</sup> | 1 | Introduction to Footings and Soil Pressure       |
| 15 <sup>TH</sup> | 43 <sup>rd</sup> | 1 | Design of Isolated Footing                       |
|                  | 44 <sup>th</sup> | 1 | Design for Axial Load with Eccentricity          |
|                  | 45 <sup>th</sup> | 1 | Reinforcement Detailing in Footings              |

*Jyoti Sankar Panda*

**Signature of Faculty**

**ASIAN SCHOOL OF TECHNOLOGY, KHORDHA**

**ACADEMIC LESSON PLAN (WINTER-2026)**

**TH-3 PAVEMENT DESIGN & MAINTENANCE (COURSE CODE: CEPE301)**

|                                                 |                                                                       |                                 |                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|
| Discipline:<br>Civil<br>Engineering             | Semester: 5 <sup>th</sup>                                             | No. of periods<br>available: 45 | Name of Teaching Faculty:<br><br>Ankita Rath                    |
| Subject:<br>Pavement<br>Design &<br>Maintenance | No. of Days/ per<br>week class<br>allotted : 3<br>periods per<br>week |                                 | Semester from: 02.07.2026 To 05.11.2026<br>No. of weeks : 15    |
| Week                                            | Class Day                                                             |                                 | Topics to be covered                                            |
| 1 <sup>ST</sup>                                 | 1 <sup>st</sup>                                                       | 1                               | Introduction to Pavement Engineering and Transportation Systems |
|                                                 | 2 <sup>nd</sup>                                                       | 1                               | Types of Pavements: Flexible, Rigid and Semi-Rigid              |
|                                                 | 3 <sup>rd</sup>                                                       | 1                               | Comparison of Flexible and Rigid Pavements                      |
| 2 <sup>ND</sup>                                 | 4 <sup>th</sup>                                                       | 1                               | Factors Affecting Pavement Type Selection                       |
|                                                 | 5 <sup>th</sup>                                                       | 1                               | Design Precision and Reliability Concepts                       |
|                                                 | 6 <sup>th</sup>                                                       | 1                               | Pavement Components and Functions                               |
| 3 <sup>RD</sup>                                 | 7 <sup>th</sup>                                                       | 1                               | Utility Location, Drainage and Surface Characteristics          |
|                                                 | 8 <sup>th</sup>                                                       | 1                               | Availability of Materials and Construction Factors              |
|                                                 | 9 <sup>th</sup>                                                       | 1                               | Numerical and Design-Oriented Problems                          |
| 4 <sup>TH</sup>                                 | 10 <sup>th</sup>                                                      | 1                               | Fundamentals of Pavement Design                                 |
|                                                 | 11 <sup>th</sup>                                                      | 1                               | Design Wheel Load and Traffic Analysis                          |
|                                                 | 12 <sup>th</sup>                                                      | 1                               | Equivalent Axle Load Concepts                                   |
| 5 <sup>TH</sup>                                 | 13 <sup>th</sup>                                                      | 1                               | Traffic Factors Affecting Pavement Design                       |
|                                                 | 14 <sup>th</sup>                                                      | 1                               | Environmental Factors in Pavement Design                        |
|                                                 | 15 <sup>th</sup>                                                      | 1                               | Road Geometry and Material Considerations                       |
| 6 <sup>TH</sup>                                 | 16 <sup>th</sup>                                                      | 1                               | Subgrade Soil Characteristics                                   |
|                                                 | 17 <sup>th</sup>                                                      | 1                               | Drainage Requirements and Design Considerations                 |
|                                                 | 18 <sup>th</sup>                                                      | 1                               | Revision of Units I & II                                        |
| 7 <sup>TH</sup>                                 | 19 <sup>th</sup>                                                      | 1                               | Class Test on Units I & II                                      |
|                                                 | 20 <sup>th</sup>                                                      | 1                               | Introduction to Flexible Pavement Design                        |
|                                                 | 21 <sup>st</sup>                                                      | 1                               | Theoretical Method of Flexible Pavement Design                  |
| 8 <sup>TH</sup>                                 | 22 <sup>nd</sup>                                                      | 1                               | Empirical Method of Flexible Pavement Design                    |
|                                                 | 23 <sup>rd</sup>                                                      | 1                               | Soil Strength Tests and Their Applications                      |
|                                                 | 24 <sup>th</sup>                                                      | 1                               | Design without Soil Strength Tests                              |
| 9 <sup>TH</sup>                                 | 25 <sup>th</sup>                                                      | 1                               | IRC Pavement Design Procedure                                   |
|                                                 | 26 <sup>th</sup>                                                      | 1                               | Flexible Pavement Design Examples                               |
|                                                 | 27 <sup>th</sup>                                                      | 1                               | Introduction to Concrete Pavement Design                        |
| 10 <sup>TH</sup>                                | 28 <sup>th</sup>                                                      | 1                               | Factors Affecting Concrete Pavement Design                      |

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|                  | 29 <sup>th</sup> | 1 | Need, Types and Requirements of Joints              |
|                  | 30 <sup>th</sup> | 1 | Revision of Unit III                                |
| 11 <sup>TH</sup> | 31 <sup>st</sup> | 1 | Introduction to Pavement Evaluation                 |
|                  | 32 <sup>nd</sup> | 1 | Purpose and Need of Pavement Evaluation             |
|                  | 33 <sup>rd</sup> | 1 | Visual Rating Methods                               |
| 12 <sup>TH</sup> | 34 <sup>th</sup> | 1 | Serviceability Index Concept                        |
|                  | 35 <sup>th</sup> | 1 | Roughness Measurement Techniques                    |
|                  | 36 <sup>th</sup> | 1 | Benkelman Beam Deflection Method                    |
| 13 <sup>TH</sup> | 37 <sup>th</sup> | 1 | Pavement Condition Surveys and Data Interpretation  |
|                  | 38 <sup>th</sup> | 1 | Introduction to Pavement Maintenance                |
|                  | 39 <sup>th</sup> | 1 | Types of Maintenance: Routine, Periodic and Special |
| 14 <sup>TH</sup> | 40               | 1 | Need for Inspection and Maintenance Measures        |
|                  | 41 <sup>st</sup> | 1 | Flexible Pavement Failures and Causes               |
|                  | 42 <sup>nd</sup> | 1 | Distresses in Flexible Pavements and Remedies       |
| 15 <sup>TH</sup> | 43 <sup>rd</sup> | 1 | Rigid Pavement Failures and Joint Distresses        |
|                  | 44 <sup>th</sup> | 1 | Revision of Unit IV                                 |
|                  | 45 <sup>th</sup> | 1 | Class Test on Units III & IV                        |

*Ankita Rath*

Signature of Faculty

**ASIAN SCHOOL OF TECHNOLOGY, KHORDHA**

**ACADEMIC LESSON PLAN (WINTER-2026)**

**TH-4 TRAFFIC ENGINEERING (COURSE CODE: CEPE303)**

|                                  |                                                                 |                                 |                                                                       |
|----------------------------------|-----------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------|
| Discipline:<br>Civil Engineering | Semester: 5 <sup>th</sup>                                       | No. of periods<br>available: 45 | Name of Teaching Faculty:<br><br>Santosh Kumar Behera                 |
| Subject:<br>Traffic Engineering  | No. of Days/ per week<br>class allotted : 3<br>periods per week |                                 | Semester from:<br>02.07.2026 To<br>05.11.2026<br>No. of weeks : 15    |
| Week                             | Class Day                                                       |                                 | Topics to be covered                                                  |
| 1 <sup>ST</sup>                  | 1 <sup>st</sup>                                                 | 1                               | Introduction to Traffic Engineering: Definition, Objectives and Scope |
|                                  | 2 <sup>nd</sup>                                                 | 1                               | Road User Characteristics and Traffic Components                      |
|                                  | 3 <sup>rd</sup>                                                 | 1                               | Vehicle Characteristics Affecting Traffic Operations                  |
| 2 <sup>ND</sup>                  | 4 <sup>th</sup>                                                 | 1                               | Human Factors in Traffic Engineering                                  |
|                                  | 5 <sup>th</sup>                                                 | 1                               | Speed, Volume and Density Studies                                     |
|                                  | 6 <sup>th</sup>                                                 | 1                               | Traffic Flow Characteristics and Relationships                        |
| 3 <sup>RD</sup>                  | 7 <sup>th</sup>                                                 | 1                               | Road Characteristics Affecting Traffic Flow                           |
|                                  | 8 <sup>th</sup>                                                 | 1                               | Reaction Time and Driver Behaviour                                    |
|                                  | 9 <sup>th</sup>                                                 | 1                               | PIEV Theory and Applications                                          |
| 4 <sup>TH</sup>                  | 10 <sup>th</sup>                                                | 1                               | Quiz on Fundamentals of Traffic Engineering                           |
|                                  | 11 <sup>th</sup>                                                | 1                               | Introduction to Traffic Studies                                       |
|                                  | 12 <sup>th</sup>                                                | 1                               | Traffic Volume Study: Methods and Data Collection                     |
| 5 <sup>TH</sup>                  | 13 <sup>th</sup>                                                | 1                               | Presentation and Analysis of Traffic Volume Data                      |
|                                  | 14 <sup>th</sup>                                                | 1                               | Spot Speed and Running Speed Studies                                  |
|                                  | 15 <sup>th</sup>                                                | 1                               | Speed Study Methods and Applications                                  |

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| 6 <sup>TH</sup>  | 16 <sup>th</sup> | 1 | Origin and Destination Surveys                         |
|                  | 17 <sup>th</sup> | 1 | Need and Methods of O-D Surveys                        |
|                  | 18 <sup>th</sup> | 1 | Traffic Data Analysis and Interpretation               |
| 7 <sup>TH</sup>  | 19 <sup>th</sup> | 1 | Revision of Units I & II                               |
|                  | 20 <sup>th</sup> | 1 | Class Test on Units I & II                             |
|                  | 21 <sup>st</sup> | 1 | Traffic Control Devices: Introduction and Necessity    |
| 8 <sup>TH</sup>  | 22 <sup>nd</sup> | 1 | Classification of Traffic Control Devices              |
|                  | 23 <sup>rd</sup> | 1 | Regulatory Signs: Types and Applications               |
|                  | 24 <sup>th</sup> | 1 | Warning Signs and Informatory Signs                    |
| 9 <sup>TH</sup>  | 25 <sup>th</sup> | 1 | Design and Placement of Road Signs                     |
|                  | 26 <sup>th</sup> | 1 | Traffic Markings: Definition and Classification        |
|                  | 27 <sup>th</sup> | 1 | Carriageway, Kerb and Object Markings                  |
| 10 <sup>TH</sup> | 28 <sup>th</sup> | 1 | Reflector Markers and Delineators                      |
|                  | 29 <sup>th</sup> | 1 | Practical Design of Signs and Markings                 |
|                  | 30 <sup>th</sup> | 1 | Traffic Signals: Need and Types                        |
| 11 <sup>TH</sup> | 31 <sup>st</sup> | 1 | Fixed-Time and Vehicle-Actuated Signals                |
|                  | 32 <sup>nd</sup> | 1 | Signal Timing by Webster Method                        |
|                  | 33 <sup>rd</sup> | 1 | Signal Timing by IRC Method                            |
| 12 <sup>TH</sup> | 34 <sup>th</sup> | 1 | Pedestrian Signals and Signal Coordination             |
|                  | 35 <sup>th</sup> | 1 | Rotary Intersections: Design and Operation             |
|                  | 36 <sup>th</sup> | 1 | Channelization and Refuge Islands                      |
| 13 <sup>TH</sup> | 37 <sup>th</sup> | 1 | At-Grade Intersections                                 |
|                  | 38 <sup>th</sup> | 1 | Grade-Separated Intersections                          |
|                  | 39 <sup>th</sup> | 1 | Types of Interchanges: Diamond, Cloverleaf and Trumpet |
| 14 <sup>TH</sup> | 40               | 1 | Class Test Unit III & IV                               |



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| 15 <sup>TH</sup> | 41 <sup>st</sup> | 1 | Road Accident Studies: Causes and Characteristics                                                   |
|                  | 42 <sup>nd</sup> | 1 | Collision Diagrams and Accident Analysis                                                            |
|                  | 43 <sup>rd</sup> | 1 | Measures for Prevention of Road Accidents                                                           |
| 15 <sup>TH</sup> | 44 <sup>th</sup> | 1 | Street Lighting: Principles and Design Considerations                                               |
|                  | 45 <sup>th</sup> | 1 | Arboriculture: Objectives and Importance<br>Selection, Protection and Maintenance of Roadside Trees |

Santosh Kumar Behra

Signature of Faculty

**ASIAN SCHOOL OF TECHNOLOGY, KHORDHA**

**ACADEMIC LESSON PLAN (WINTER-2026)**

**TH-5 (b) LEADERSHIP AND MANAGEMENT SKILL (COURSE CODE: OE301)**

|                                            |                                                          |                              |                                                                                                                            |
|--------------------------------------------|----------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Discipline:<br>Civil Engineering           | Semester :5 <sup>TH</sup>                                | No. of periods available: 45 | Name of Teaching Faculty: <b>HIMADRI TANAYA MOHAPATRA</b>                                                                  |
| Subject:<br>Leadership & Management Skills | No. of Days/ per week class allotted :<br>3periods /week |                              | Semester from: 02.07.2026 To 05.11.2026<br>No. of weeks : 15                                                               |
| Week                                       | Class Day                                                |                              | Theory Topics                                                                                                              |
| 1 <sup>st</sup>                            | 1 <sup>st</sup>                                          | 1                            | <b>UNIT 1 :Leadership &amp; Management, concept, principles</b> – Definition of leadership, management Leadership theories |
|                                            | 2 <sup>nd</sup>                                          | 1                            | Leadership characteristics                                                                                                 |
|                                            | 3 <sup>rd</sup>                                          | 1                            | Principles of management                                                                                                   |
| 2 <sup>nd</sup>                            | 4 <sup>th</sup>                                          | 1                            | Managerial functions                                                                                                       |
|                                            | 5 <sup>th</sup>                                          | 1                            | Leader v/s Manager, Leader/Manager traits and character                                                                    |
|                                            | 6 <sup>th</sup>                                          | 1                            | Leadership Styles                                                                                                          |
| 3 <sup>rd</sup>                            | 7 <sup>th</sup>                                          | 1                            | Leadership theories                                                                                                        |
|                                            | 8 <sup>th</sup>                                          | 1                            | Leadership characteristics and Leadership Styles                                                                           |
|                                            | 9 <sup>th</sup>                                          | 1                            | Principles of management and Managerial functions                                                                          |
| 4 <sup>th</sup>                            | 10 <sup>th</sup>                                         | 1                            | Quiz – Unit I                                                                                                              |
|                                            | 11 <sup>th</sup>                                         | 1                            | <b>UNIT 2: Human Resource Management: Meaning, Nature</b>                                                                  |

|                 |                  |   |                                                                                                                           |
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|                 | 12 <sup>th</sup> | 1 | Human Resource Management: Objectives, Scope                                                                              |
| 5 <sup>th</sup> | 13 <sup>th</sup> | 1 | Job & Job analysis                                                                                                        |
|                 | 14 <sup>th</sup> | 1 | Staff Development: Need and Objectives of Staff Development                                                               |
|                 | 15 <sup>th</sup> | 1 | Staff Development: Approaches                                                                                             |
| 6 <sup>th</sup> | 16 <sup>th</sup> | 1 | Training & development                                                                                                    |
|                 | 17 <sup>th</sup> | 1 | Organizational Development: Components of OD process                                                                      |
|                 | 18 <sup>th</sup> | 1 | Learning organization                                                                                                     |
| 7 <sup>th</sup> | 19 <sup>th</sup> | 1 | Training & development                                                                                                    |
|                 | 20 <sup>th</sup> | 1 | Organizational Development and Learning organization                                                                      |
|                 | 21 <sup>st</sup> | 1 | Class Test – Units I & II                                                                                                 |
| 8 <sup>th</sup> | 22 <sup>nd</sup> | 1 | <b>UNIT 3: personal disposition ,skill &amp; ability of leaders</b><br>Self-awareness, Leadership characteristics, traits |
|                 | 23 <sup>rd</sup> | 1 | Leadership skills & abilities, Emotional intelligence & its components, Importance in leadership                          |
|                 | 24 <sup>th</sup> | 1 | Communication skills for effective leadership, Barriers to effective communication                                        |
| 9 <sup>th</sup> | 25 <sup>th</sup> | 1 | Active Listening, Mindful listening                                                                                       |
|                 | 26 <sup>th</sup> | 1 | Leading & Mentoring – Influencing & mentoring                                                                             |
|                 | 27 <sup>th</sup> | 1 | <b>UNIT 4: Leader’s role in Motivating, Inspiring and Transformative leadership,</b>                                      |

|                  |                  |   |                                                                       |
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|                  |                  |   | <b>nurturing team-work</b><br>Goal setting & leadership               |
| 10 <sup>th</sup> | 28 <sup>th</sup> | 1 | Transformative Leadership                                             |
|                  | 29 <sup>th</sup> | 1 | Vision & envisioning                                                  |
|                  | 30 <sup>th</sup> | 1 | Motivational role of leader in people management                      |
| 11 <sup>TH</sup> | 31 <sup>st</sup> | 1 | Group & team                                                          |
|                  | 32 <sup>nd</sup> | 1 | Team dynamics                                                         |
|                  | 33 <sup>rd</sup> | 1 | Conflict management                                                   |
| 12 <sup>TH</sup> | 34 <sup>th</sup> | 1 | Strategies in managing conflicts                                      |
|                  | 35 <sup>th</sup> | 1 | Revision                                                              |
|                  | 36 <sup>th</sup> | 1 | <b>UNIT 5: Change Management &amp; Leadership</b><br>Models of change |
| 13 <sup>TH</sup> | 37 <sup>th</sup> | 1 | Forces driving change                                                 |
|                  | 38 <sup>th</sup> | 1 | Change Management – process                                           |
|                  | 39 <sup>th</sup> | 1 | Change Management – goal, importance                                  |
| 14 <sup>TH</sup> | 40 <sup>th</sup> | 1 | The process of change happening in an organization                    |
|                  | 41 <sup>st</sup> | 1 | Key aspects of leadership in change management                        |
|                  | 42 <sup>nd</sup> | 1 | Responsibilities of a change leader                                   |
| 15 <sup>th</sup> | 43 <sup>rd</sup> | 1 | Models of change and Forces driving change                            |
|                  | 44 <sup>th</sup> | 1 | Group discussion                                                      |
|                  | 45 <sup>th</sup> | 1 | Class Test – Units III ,IV & V                                        |

Himadritanya Mohapatra

Signature of Faculty