

**TH1: CRYPTOGRAPHY & NETWORK SECURITY**

|                                                                      |                                                                                        |                                                                               |
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| <b>Department:CSE</b>                                                | <b>Semester:6<sup>th</sup></b>                                                         | <b>Name of The Teaching Faculty: DHANESWAR PANDA</b>                          |
| <b>Subject: TH1:<br/>CRYPTOGRAPHY &amp;<br/>NETWORK<br/>SECURITY</b> | <b>No. of days/<br/>week Class<br/>allotted:<br/>4p/Week<br/><br/>Tutorial:1p/Week</b> | <b>Semester From Date:05<sup>TH</sup> JAN 2026</b>                            |
|                                                                      |                                                                                        | <b>No. of Week-15</b>                                                         |
|                                                                      |                                                                                        | <b>Topic to be Covered:</b>                                                   |
|                                                                      |                                                                                        |                                                                               |
| <b>Week</b>                                                          | <b>Class Day</b>                                                                       | <b>Theory</b>                                                                 |
| <b>1<sup>st</sup></b>                                                | <b>1st</b>                                                                             | <b>UNIT1:Possible attacks on Computers</b><br>1.1 The need for security       |
|                                                                      | <b>2nd</b>                                                                             | 1.2 Security approach                                                         |
|                                                                      | <b>3rd</b>                                                                             | 1.3 Principles of security                                                    |
|                                                                      | <b>4th</b>                                                                             | 1.4 Types of attacks                                                          |
| <b>2<sup>nd</sup></b>                                                | <b>1st</b>                                                                             | <b>1. Doubt Clearing class</b><br><b>2. Quiz test</b><br><b>3. Assignment</b> |
|                                                                      | <b>2nd</b>                                                                             | <b>UNIT2: Cryptography Concepts</b>                                           |
|                                                                      | <b>3rd</b>                                                                             | <b>2.1 Plain text &amp; Cipher Text</b>                                       |
|                                                                      | <b>4th</b>                                                                             | 2.2 Substitution techniques                                                   |
| <b>3<sup>rd</sup></b>                                                | <b>1st</b>                                                                             | 2.3 Transposition techniques                                                  |
|                                                                      | <b>2nd</b>                                                                             | 2.4 Encryption & Decryption                                                   |
|                                                                      | <b>3rd</b>                                                                             | 2.5 Symmetric & Asymmetric key cryptography                                   |
|                                                                      | <b>4th</b>                                                                             | <b>1. Doubt Clearing class</b><br><b>2. Quiz test</b><br><b>3. Assignment</b> |
| <b>4<sup>th</sup></b>                                                | <b>1st</b>                                                                             | <b>UNIT3: Symmetric &amp; Asymmetric key algorithms</b>                       |
|                                                                      | <b>2nd</b>                                                                             | 3.1 Symmetric key algorithm types                                             |
|                                                                      | <b>3rd</b>                                                                             | 3.2 Overview of Symmetric key cryptography                                    |
|                                                                      | <b>4th</b>                                                                             | 3.3 Data encryption standards                                                 |
| <b>5<sup>th</sup></b>                                                | <b>1st</b>                                                                             | 3.4 Over view of Asymmetric key cryptography                                  |
|                                                                      | <b>2nd</b>                                                                             | 3.5 The RSA algorithm                                                         |
|                                                                      | <b>3rd</b>                                                                             | 3.6 Symmetric & Asymmetric key cryptography                                   |
|                                                                      | <b>4th</b>                                                                             | 3.7 Digital signature                                                         |
| <b>6<sup>th</sup></b>                                                | <b>1st</b>                                                                             | ASSIGNMENT                                                                    |
|                                                                      | <b>2nd</b>                                                                             | <b>1. Doubt Clearing class</b><br><b>2. Quiz test</b><br><b>3. Assignment</b> |
|                                                                      | <b>3rd</b>                                                                             | <b>UNIT4: Digital certificate &amp; Public key infrastructure</b>             |
|                                                                      | <b>4th</b>                                                                             | 4.1 Digital certificates                                                      |
|                                                                      | <b>1st</b>                                                                             | 4.2 Private key management                                                    |
|                                                                      | <b>2nd</b>                                                                             | 4.3 PKIX Model                                                                |

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| 7 <sup>th</sup>  | 3rd | 4.4 Public key cryptography standards               |
|                  | 4th | ASSIGNMENT                                          |
| 8 <sup>th</sup>  | 1st | 1. DoubtClearing class<br>2. Quiztest<br>Assignment |
|                  | 2nd | UNIT5:Internet security protocols                   |
|                  | 3rd | 5.1 Basic concept                                   |
|                  | 4th | 5.2 Secure socket layer                             |
| 9 <sup>th</sup>  | 1st | 5.3 Transport layer security                        |
|                  | 2nd | 5.4 Secure Hyper text transfer protocol(SHHTTP)     |
|                  | 3rd | 5.5 Time stamping protocol (TSP)                    |
|                  | 4th | 5.6 Secure electronic transaction (SET)             |
| 10 <sup>th</sup> | 1st | ASSIGNMENT                                          |
|                  | 2nd | 1. DoubtClearing class<br>2. Quiztest<br>Assignment |
|                  | 3rd | UNIT 6:User authentication                          |
|                  | 4th | 6.1 Authentication basics                           |
| 11 <sup>th</sup> | 1st | 6.2 Password                                        |
|                  | 2nd | 6.3 Authentication Tokens                           |
|                  | 3rd | 6.4 Certificate based authentication                |
|                  | 4th | 6.5 Biometric authentication                        |
| 12 <sup>th</sup> | 1st | ASSIGNMENT                                          |
|                  | 2nd | 1. DoubtClearing class<br>2. Quiztest<br>Assignment |
|                  | 3rd | UNIT 7:Network Security & VPN                       |
|                  | 4th | 7.1 Brief introduction of TCP/IP                    |
| 13 <sup>th</sup> | 1st | 7.2 Firewall                                        |
|                  | 2nd | 7.3 IP Security                                     |
|                  | 3rd | 7.4 Virtual Private Network (VPN)                   |
|                  | 4th | 1. DoubtClearing class<br>2. Quiztest<br>Assignment |

*Dhaneswar panda*  
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**ACADEMIC LESSON PLAN (SUMMER-2026)**

**TH2: INTERNET OF THINGS**

|                                                         |                                                                    |                                                                                                                                             |
|---------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Department:CSE                                          | Semester:6 <sup>th</sup>                                           | Name of The Teaching Faculty: SUBASH CH. BALIARSINGH                                                                                        |
| <b>Subject:</b><br><b>TH2: INTERNET OF THINGS (IOT)</b> | No. of days/ week Class allotted: 4p/Week<br><br>Tutorial: 1p/Week | Semester From Date: 05 <sup>TH</sup> JAN 2026                                                                                               |
|                                                         |                                                                    | No. of Week-15                                                                                                                              |
|                                                         |                                                                    | Topic to be Covered:                                                                                                                        |
|                                                         |                                                                    |                                                                                                                                             |
| <b>Week</b>                                             | <b>Class Day</b>                                                   | <b>Theory</b>                                                                                                                               |
| <b>1<sup>st</sup></b>                                   | <b>1st</b>                                                         | <b>UNIT1: Introduction to Internet of Things</b><br>1.1 Introduction                                                                        |
|                                                         | <b>2nd</b>                                                         | 1.2 Characteristics of IoT, 1.3 Applications of IoT                                                                                         |
|                                                         | <b>3rd</b>                                                         | 1.4 IoT Categories, 1.5 IoT Enablers and connectivity layers                                                                                |
|                                                         | <b>4th</b>                                                         | 1.6 Baseline Technologies, 1.1 Sensor, 1.2 Actuator                                                                                         |
| <b>2<sup>nd</sup></b>                                   | <b>1st</b>                                                         | 1.3 IoT components and implementation, 1.4 Challenges for IoT<br><b>1. Doubt Clearing class</b><br><b>2. Quiz test</b><br><b>Assignment</b> |
|                                                         |                                                                    | <b>UNIT2: IOT Networking</b>                                                                                                                |
|                                                         | <b>2nd</b>                                                         | 2.1 Terminologies                                                                                                                           |
|                                                         | <b>3rd</b>                                                         | 2.2 Gateway Prefix allotment                                                                                                                |
|                                                         | <b>4th</b>                                                         | 2.3 Impact of mobility on Addressing                                                                                                        |
| <b>3<sup>rd</sup></b>                                   | <b>1st</b>                                                         | 2.4 Multihoming, 2.5 Deviation from regular Web                                                                                             |
|                                                         | <b>2nd</b>                                                         | 2.6 IoT identification and Data protocols                                                                                                   |
|                                                         | <b>3rd</b>                                                         | <b>1. Doubt Clearing class</b><br><b>2. Quiz test</b><br><b>Assignment</b>                                                                  |
|                                                         | <b>4th</b>                                                         | <b>UNIT3: Connectivity Technologies</b>                                                                                                     |
| <b>4<sup>th</sup></b>                                   | <b>1st</b>                                                         | 3.1 Introduction, 3.2 IEEE 802.15.4, 3.3 ZigBee, 6LoWPAN                                                                                    |
|                                                         | <b>2nd</b>                                                         | 3.4 RFID, HART and wireless HART 3.5 NFC, Bluetooth, Z wave, ISA100.11.A                                                                    |
|                                                         | <b>3rd</b>                                                         | ASSIGNMENT                                                                                                                                  |
|                                                         | <b>4th</b>                                                         | <b>1. Doubt Clearing class</b><br><b>2. Quiz test</b><br><b>Assignment</b>                                                                  |
| <b>5<sup>th</sup></b>                                   | <b>1st</b>                                                         | <b>UNIT4: Wireless Sensor Networks</b>                                                                                                      |
|                                                         | <b>2nd</b>                                                         | 4.1 Introduction                                                                                                                            |
|                                                         | <b>3rd</b>                                                         | 4.2 Components of a sensor node                                                                                                             |
|                                                         | <b>4th</b>                                                         | 4.3 Modes of Detection                                                                                                                      |
|                                                         | <b>1st</b>                                                         | 4.4 Challenges in WSN                                                                                                                       |

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| 6 <sup>th</sup>  | 2nd | 4.5 Sensor Web                                                               |
|                  |     | 4.6 Cooperation and Behaviour of Nodes in WSN                                |
|                  |     | 4.7 Self-Management of WSN, 4.8 Social sensing WSN                           |
|                  | 3rd | 4.9 Application of WSN, 4.10 Wireless Multimedia sensor network              |
| 7 <sup>th</sup>  | 4th | 4.11 Wireless Nano sensor Networks, 4.12 Underwater acoustic sensor networks |
|                  | 1st | 4.13 WSN Coverage, 4.14 Stationary WSN, Mobile WSN                           |
|                  | 2nd | 1. DoubtClearing class<br>2. Quiztest<br>Assignment                          |
|                  | 3rd | UNIT5:M2M Communication                                                      |
|                  | 4th | 5.1 M2M communication                                                        |
| 8 <sup>th</sup>  | 1st | 5.2 M2M Ecosystem                                                            |
|                  | 2nd | 5.3 M2M service Platform                                                     |
|                  | 3rd | 5.4 Interoperability                                                         |
|                  | 4th | 1. DoubtClearing class<br>2. Quiztest<br>Assignment                          |
| 9 <sup>th</sup>  | 1st | UNIT 6:Programming with Arduino                                              |
|                  | 2nd | 6.1 Features of Arduino                                                      |
|                  | 3rd | 6.2 Components of Arduino Board                                              |
|                  | 4th | 6.3 Arduino IDE                                                              |
| 10 <sup>th</sup> | 1st | 6.4 Case Studies                                                             |
|                  | 2nd | 1. DoubtClearing class<br>2. Quiztest<br>Assignment                          |
|                  | 3rd | UNIT 7:Programming with Raspberry Pi                                         |
|                  | 4th | 7.1 Architecture and Pin Configuration                                       |
| 11 <sup>th</sup> | 1st | 7.2 Case studies                                                             |
|                  | 2nd | 7.3 Implementation of IoT with Raspberry Pi                                  |
|                  | 3rd | 1. DoubtClearing class<br>2. Quiztest<br>Assignment                          |
|                  | 4th | UNIT 8:Software defined Networking                                           |
| 12 <sup>th</sup> | 1st | 8.1 Limitation of current network, 8.2 Origin of SDN                         |
|                  | 2nd | 8.3 SDN Architecture, 8.4 Rule Placement, Open flow Protocol                 |
|                  | 3rd | 8.5 Controller placement, 8.6 Security in SDN 8.7 Integrating SDN in IoT     |
|                  | 4th | 1. DoubtClearing class<br>2. Quiztest<br>Assignment                          |
|                  | 1st | UNIT 9:Smart Homes                                                           |

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| 13 <sup>th</sup> | 2nd | 9.1 Origin and example of Smart Home Technologies,9.2 Smart Home Implementation |
|                  | 3rd | 9.3 Home Area Networks (HAN),9.4 Smart Home benefits and issues                 |
|                  | 4th | 1. DoubtClearing class<br>2. Quiztest<br>Assignment                             |
| 14 <sup>th</sup> | 1st | UNIT 10:Smart Cities                                                            |
|                  | 2nd | 10.1 Characteristics of Smart Cities,10.2 Smart city Frameworks                 |
|                  | 3rd | 10.3 Challenges in Smart cities,10.4 Data Fusion                                |
|                  | 4th | 10.5 Smart Parking,10.6 Energy Management in Smart cities                       |
| 15 <sup>th</sup> | 1st | UNIT 11:Industrial IoT                                                          |
|                  | 2nd | 11.1 IIoT requirements,11.2 Design considerations                               |
|                  | 3rd | 11.3 Applications of IIoT,11.4 Benefits of IIoT,11.5 Challenges of IIoT         |

*Subash Ch. Balarasingh*

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*[Signature]*

Lecturer in cse

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**ASIAN SCHOOL OF TECHNOLOGY, KHORDA****ACADEMIC LESSON PLAN (SUMMER-2026)****TH3: CLOUD COMPUTING**

|                                     |                                                                         |                                                                                                                                              |
|-------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Department:CSE                      | Semester:6 <sup>th</sup>                                                | Name of The Teaching Faculty:ASHISH KUMAR PANDA                                                                                              |
| Subject: TH3:<br>CLOUD<br>COMPUTING | No. of days/ week<br>Class allotted:<br>4p/Week<br><br>Tutorial:1p/Week | Semester From Date:05 <sup>TH</sup> JAN 2026                                                                                                 |
|                                     |                                                                         | No. of Week-15                                                                                                                               |
|                                     |                                                                         | Topic to be Covered:                                                                                                                         |
| Week                                | Class Day                                                               | Theory                                                                                                                                       |
| 1 <sup>st</sup>                     | 1st                                                                     | <b>UNIT1:Introduction To Cloud Computing</b><br>1.1 Historical development                                                                   |
|                                     | 2nd                                                                     | 1.2 Vision of Cloud Computing                                                                                                                |
|                                     | 3rd                                                                     | 1.3 Characteristics of Cloud computing, 1.4 Cloud computing Reference model                                                                  |
|                                     | 4th                                                                     | 1.5 Cloud computing environment, 1.6. Cloud Service requirements                                                                             |
| 2 <sup>nd</sup>                     | 1st                                                                     | 1.7. Cloud and Dynamic Infrastructure<br>1.8. Cloud Adoption, 1.9. Cloud applications<br><b>1. Doubt Clearing class</b><br><b>Assignment</b> |
|                                     |                                                                         |                                                                                                                                              |
|                                     |                                                                         |                                                                                                                                              |
|                                     | 2nd                                                                     | <b>UNIT2:Cloud Computing Architecture</b>                                                                                                    |
|                                     | 3rd                                                                     | 2.1 Introduction                                                                                                                             |
| 3 <sup>rd</sup>                     | 4th                                                                     | 2.2 Cloud Reference Model                                                                                                                    |
|                                     | 1st                                                                     | 2.3 Types of Clouds, 2.4. Cloud Interoperability and standards                                                                               |
|                                     | 2nd                                                                     | 2.5 Cloud computing Interoperability use cases                                                                                               |
|                                     | 3rd                                                                     | 2.6. Role of standards in Cloud Computing environment                                                                                        |
|                                     | 4th                                                                     | <b>2. Doubt Clearing class</b><br><b>Assignment</b>                                                                                          |
| 4 <sup>th</sup>                     | 1st                                                                     | <b>UNIT3:Scalability and Fault Tolerance</b>                                                                                                 |
|                                     | 2nd                                                                     | 3.1. Introduction                                                                                                                            |
|                                     | 3rd                                                                     | 3.2. Scalability and Fault Tolerance                                                                                                         |
|                                     | 4th                                                                     | 3.3. Cloud solutions, 3.4. Cloud Ecosystem                                                                                                   |
| 5 <sup>th</sup>                     | 1st                                                                     | 3.5. Cloud Business process management                                                                                                       |
|                                     | 2nd                                                                     | 3.6. Portability and Interoperability                                                                                                        |
|                                     | 3rd                                                                     | 3.7. Cloud Service management                                                                                                                |
|                                     | 4th                                                                     | 3.8. Cloud Offerings, 3.9. Testing under Control                                                                                             |
| 6 <sup>th</sup>                     | 1st                                                                     | 3.10. Cloud service Controls, 3.11. Virtual desktop Infrastructure                                                                           |
|                                     | 2nd                                                                     | <b>3. Doubt Clearing class</b><br><b>Assignment</b>                                                                                          |
|                                     | 3rd                                                                     | <b>UNIT4:Cloud Management and Virtualization Technology</b>                                                                                  |
|                                     | 4th                                                                     | 4.1. Create a virtualized Architecture                                                                                                       |
| 7 <sup>th</sup>                     | 1st                                                                     | 4.2. Data Centre, 4.3. Resilience, 4.4. Agility                                                                                              |
|                                     | 2nd                                                                     | 4.5. Cisco Data Centre Network architecture                                                                                                  |
|                                     | 3rd                                                                     | 4.6. Storage, 4.7. Provisioning, 4.8. Asset Management                                                                                       |

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| 8 <sup>th</sup>  | 4th | 4.9. Concept of Map Reduce,4.10. Cloud Governance                    |
|                  | 1st | 4.11. Load Balancing,4.12. High Availability,4.13. Disaster Recovery |
|                  | 2nd | <b>UNIT5:Virtualisation</b>                                          |
|                  | 3rd | 5.1. Introduction                                                    |
|                  | 4th | 5.2. NetworkVirtualisation                                           |
| 9 <sup>th</sup>  | 1st | 5.3. Desktop and Application Virtualisation                          |
|                  |     | 5.4. Desktop as a service,5.5. Local desktop Virtualisation          |
|                  | 2nd | 5.6. Virtualisation benefits,5.7. Server Virtualisation              |
|                  | 3rd | 5.8. Block and File level Storage Virtualisation                     |
|                  | 4th | 5.9. Virtual Machine Monitor                                         |
| 10 <sup>th</sup> | 1st | 5.10. Infrastructure Requirements,5.11. VLAN and VSAN                |
|                  |     | <b>4.DoubtClearing class Assignment</b>                              |
|                  | 2nd | <b>UNIT 6:Cloud Security</b>                                         |
|                  | 3rd | 6.1. Cloud Security Fundamentals                                     |
|                  | 4th | 6.2. Cloud security services                                         |
| 11 <sup>th</sup> | 1st | 6.3. Design Principles                                               |
|                  | 2nd | 6.4. Secure Cloud software requirements                              |
|                  |     | 6.5. Policy Implementation                                           |
|                  | 3rd | 6.6. Cloud Computing Security Challenges                             |
|                  | 4th | <b>5.DoubtClearing class Assignment</b>                              |
| 12 <sup>th</sup> | 1st | <b>UNIT 7:Cloud Computing Security Architecture</b>                  |
|                  | 2nd | 7.1. Architectural Considerations                                    |
|                  | 3rd | 7.2. Information Classification                                      |
|                  | 4th | 7.3. Virtual Private Networks                                        |
| 13 <sup>th</sup> | 1st | 7.4. Public Key and Encryption Key management                        |
|                  | 2nd | 7.5. Digital certificates,7.6. Key management                        |
|                  |     | 7.7. Memory Cards,7.8. Implementing Identity Management              |
|                  | 3rd | 7.9. Controls and Autonomic System                                   |
|                  | 4th | <b>6.DoubtClearing class Assignment</b>                              |
|                  |     | <b>UNIT 8:Market Based Management of Clouds</b>                      |
| 14 <sup>th</sup> | 1st | 8.1. Cloud Information security vendors                              |
|                  | 2nd | 8.2. Cloud Federation, charactrization                               |
|                  | 3rd | 8.3. Cloud Federation stack *                                        |
|                  | 4th | 8.4. Third Party Cloud service                                       |
|                  |     | 8.5. Case study                                                      |
| 15 <sup>th</sup> | 1st | <b>7.DoubtClearing class</b>                                         |
|                  | 2nd | <b>UNIT 9:Hadoop</b>                                                 |
|                  | 3rd | 9.1. Introduction,9.2. Data Source                                   |
|                  | 4th | 9.3. Data storage and Analysis,9.4.Comparison with other system      |

*Ashish Kumar Panda*  
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**TH4: E-COMMERCE**

|                       |                                                                                        |                                                                                           |
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| <b>Department:CSE</b> | <b>Semester:6<sup>th</sup></b>                                                         | <b>Name of The Teaching Faculty:SMRUTI REKHA SETHI</b>                                    |
| <b>Subject:</b>       | <b>No. of days/<br/>week Class<br/>allotted:<br/>4p/Week<br/><br/>Tutorial:1p/Week</b> | <b>Semester From Date:05<sup>TH</sup> JAN 2026</b>                                        |
| <b>TH4:</b>           |                                                                                        | <b>No. of Week-15</b>                                                                     |
| <b>E-COMMERCE</b>     |                                                                                        | <b>Topic to be Covered:</b>                                                               |
|                       |                                                                                        |                                                                                           |
| <b>Week</b>           | <b>Class Day</b>                                                                       | <b>Theory</b>                                                                             |
| <b>1<sup>st</sup></b> | <b>1st</b>                                                                             | <b>UNIT1:Introduction to E-Commerce</b>                                                   |
|                       | <b>2nd</b>                                                                             | 1.1 Introduction, 1.2 what is E-commerce                                                  |
|                       | <b>3rd</b>                                                                             | 1.3 E-Business, 1.4 Categories of E-Commerce Applications                                 |
|                       | <b>4th</b>                                                                             | 1.5 Global Trading Environment & Adoption of E-commerce                                   |
| <b>2<sup>nd</sup></b> | <b>1st</b>                                                                             | 1.6 Comparison between traditional and E-commerce<br>1.7 Advantage and Disadvantage       |
|                       | <b>2nd</b>                                                                             | <b>UNIT2:Business Models of E-Commerce</b>                                                |
|                       | <b>3rd</b>                                                                             | 2.1 Introduction, 2.2 Business Models of E-Commerce                                       |
|                       | <b>4th</b>                                                                             | 2.3 B2C, 2.4 B2B                                                                          |
| <b>3<sup>rd</sup></b> | <b>1st</b>                                                                             | 2.5 Difference between B2C and B2B, 2.6 C2C                                               |
|                       | <b>2nd</b>                                                                             | <b>1. Doubt Clearing class</b>                                                            |
|                       | <b>3rd</b>                                                                             | <b>Assignment</b>                                                                         |
|                       | <b>4th</b>                                                                             | <b>UNIT3:B2B e-Commerce and EDI</b><br>3.1 Introduction, Need for B2B, 3.2 EDI            |
| <b>4<sup>th</sup></b> | <b>1st</b>                                                                             | 3.3 Paperless Transaction, 3.4 EDI standards                                              |
|                       | <b>2nd</b>                                                                             | 3.5 Data Standards used in EDI, 3.6 Cost of EDI                                           |
|                       | <b>3rd</b>                                                                             | 3.7 Reasons for Slow acceptability, 3.8 Electronic Fund Transfer (Canada case eliminated) |
|                       | <b>4th</b>                                                                             | 3.9 XML and its application                                                               |
| <b>5<sup>th</sup></b> | <b>1st</b>                                                                             | 3.10 Comparison of HTML and XML, 3.11 Advantage of XML as a Technology                    |
|                       | <b>2nd</b>                                                                             | <b>1. Doubt Clearing class</b>                                                            |
|                       | <b>3rd</b>                                                                             | <b>Assignment</b>                                                                         |
|                       | <b>4th</b>                                                                             | <b>UNIT4:Business Applications of E-Commerce</b>                                          |
| <b>6<sup>th</sup></b> | <b>1st</b>                                                                             | 4.1 Introduction, Trade Cycle                                                             |
|                       | <b>2nd</b>                                                                             | 4.2 Supply Chain                                                                          |
|                       |                                                                                        | 4.3 E-Procurement                                                                         |
|                       |                                                                                        | 4.4 Implementing E-Procurement                                                            |
|                       | <b>3rd</b>                                                                             | 4.5 Competitive Advantage                                                                 |
|                       | <b>4th</b>                                                                             | 4.6 E-Commerce Application in Manufacturing                                               |
|                       | <b>1st</b>                                                                             | 4.7 E-Commerce Application in Wholesale                                                   |
|                       | <b>2nd</b>                                                                             | 4.9 E-Commerce Application in Retail                                                      |

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| 7 <sup>th</sup>  | 2nd | 4.10 E-Commerce Application in Service Sector                       |
|                  | 3rd | <b>1. DoubtClearing class Assignment</b>                            |
|                  | 4th | <b>UNIT5:E-Commerce Technology</b>                                  |
| 8 <sup>th</sup>  | 1st | 5.1 Introduction,5.2 IT infrastructure                              |
|                  | 2nd | 5.3 Internet,5.4 Middleware                                         |
|                  | 3rd | 5.5 Intranet                                                        |
|                  | 4th | 5.6 Extranet                                                        |
| 9 <sup>th</sup>  | 1st | 5.7 VPN,5.8 Firewall                                                |
|                  | 2nd | 5.9 Cryptography                                                    |
|                  | 3rd | 5.10 Digital Signature                                              |
|                  | 4th | 5.11 Digital Envelope                                               |
| 10 <sup>th</sup> | 1st | 5.12 Digital certificates                                           |
|                  | 2nd | 5.13 Contents                                                       |
|                  | 3rd | <b>1. DoubtClearing class Assignment</b>                            |
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*Smriti Rerha Sethi*  
SIGNATURE OF TEACHING FACULTY

Lecturer in cse  
ASIAN SCHOOL OF TECHNOLOGY  
KHURDA