| LESSON PLAN | | | | | | |
|--|------------------------|--|--|--|--|--|
| JHARSUGUDA ENGINEER | RING SCHOOL,JHARSUGUDA | | | | | |
| Name of the Faculty: Mr. R.K.Darji/S.K.Purohit | Academic Year: 2019-20 | | | | | |
| Course No.: CST-603 | Course Name: CNS | | | | | |
| Program: Diploma | Branch: IT | | | | | |
| Year / Sem : III/ VI | Section: | | | | | |

| Sl. No. | Period /Class | Time (min) | Unit | Topic to be covered | Teaching method |
|------------|------------------|---------------|------|--|-----------------------|
| 1. | 1. | 55 | 1 | The need for security | Green Board |
| 2. | 2. | 55 | 1 | Security approach | Green Board |
| 3. | 3. | 55 | 1 | Security approach | Green Board |
| 4. | 4. | 55 | 1 | Principles of security | Green Board |
| 5. | 5. | 55 | 1 | Principles of security | Green Board |
| 6. | 6. | 55 | 1 | Types of attacks | Green Board |
| 7. | 7. | 55 | 1 | Revision of Chapter 1 | Green Board |
| 8. | 8. | 55 | 1 | Old Question Discussion | Green Board |
| 9. | 9. | 55 | 1 | Old Question Task & Doubt | Green Board |
| 10. | 10. | 55 | 2 | Plain text & Cipher Text | Green Board |
| 11. | 11. | 55 | 2 | Plain text & Cipher Text | Green Board |
| 12. | 12. | 55 | 2 | Substitution techniques | Green Board |
| 13. | 13. | 55 | 2 | Substitution techniques | Green Board |
| 14. | 14. | 55 | 2 | Transposition techniques | Green Board |
| 15. | 15. | 55 | 2 | Encryption & Decryption | Green Board |
| 16. | 16. | 55 | 2 | Encryption & Decryption | Green Board |
| 17. | 17. | 55 | 2 | Revision of Chapter 2 | Green Board |
| 18. | 18. | 55 | 2 | Old Question Discussion | Green Board |
| 19. | 19. | 55 | 3 | Symmetric key algorithm types | Green Board |
| 20. | 20. | 55 | 3 | Symmetric key algorithm types | Green Board |
| 21. | 21. | 55 | 3 | Overview of Symmetric key cryptography | Green Board |
| 22. | 22. | 55 | 3 | Data encryption standards | Green Board |
| 23. | 23. | 55 | 3 | Data encryption standards | Green Board |
| 24. | 24. | 55 | 3 | Over view of Asymmetric key cryptography | Green Board |
| 25. | 25. | 55 | 3 | Over view of Asymmetric key cryptography | Green Board |
| 26. | 26. | 55 | 3 | Creating an Object | Green Board |
| 27. | 27. | 55 | 3 | The RSA algorithm | Green Board |
| 28. | 28. | 55 | 3 | The RSA algorithm | Green Board |
| 29. | 29. | 55 | 3 | Symmetric & Asymmetric key cryptography | Green Board |
| 30. | 30. | 55 | 3 | Digital signature | NPTEL VIDEO |
| 31. | 31. | 55 | 3 | Revision of Chapter 3 | Questionnaires & Quiz |
| 32. | 32. | 55 | 3 | Old Question Discussion | Green Board |
| 33. | 33. | 55 | 4 | Digital certificates | Green Board |
| 34. | 34. | 55 | 4 | Private key management | Green Board |
| 35. | 35. | 55 | 4 | PKIX Model | Green Board |

| 36. | 36. | 55 | 4 | PKIX Model | Green Board |
|-----|-----|----|---|--|--------------|
| 37. | 37. | 55 | 4 | Public key cryptography standards | Green Board |
| 38. | 38. | 55 | 4 | Revision of Chapter 4 | Green Board |
| 39. | 39. | 55 | 4 | Old Question Discussion | Green Board |
| 40. | 40. | 55 | 5 | Basic concept | PPT |
| 41. | 41. | 55 | 5 | Basic concept | PPT |
| 42. | 42. | 55 | 5 | Secure socket layer | Chalk & talk |
| 43. | 43. | 55 | 5 | Transport layer security | NPTEL VIDEO |
| 44. | 44. | 55 | 5 | Transport layer security | NPTEL VIDEO |
| 45. | 45. | 55 | 5 | Secure Hyper text transfer protocol(SHTTP) | Chalk & talk |
| 46. | 46. | 55 | 5 | Secure Hyper text transfer protocol | Chalk & talk |
| 47. | 47. | 55 | 5 | Time stamping protocol (TSP) | Chalk & talk |
| 48. | 48. | 55 | 5 | Secure electronic transaction (SET) | Chalk & talk |
| 49. | 49. | 55 | 5 | Secure electronic transaction | Chalk & talk |
| 50. | 50. | 55 | 5 | Revision of Chapter 5 | Green Board |
| 51. | 51. | 55 | 5 | Old Question Discussion | Green Board |
| 52. | 52. | 55 | 6 | Authentication basics | Green Board |
| 53. | 53. | 55 | 6 | Password | Green Board |
| 54. | 54. | 55 | 6 | Authentication Tokens | Green Board |
| 55. | 55. | 55 | 6 | Authentication Tokens | Green Board |
| 56. | 56. | 55 | 6 | Certificate based authentication | Green Board |
| 57. | 57. | 55 | 6 | Biometric Authentication | Green Board |
| 58. | 58. | 55 | 6 | Biometric Authentication | Green Board |
| 59. | 59. | 55 | 6 | Revision of Chapter 6 | Green Board |
| 60. | 60. | 55 | 6 | Old Question Discussion | Green Board |

REFERENCES

- 1. Text Book of TB1 Cryptography & Network Security, A. Kahate , TMH Publication.
- 2. Text Book of TB2 Cryptography & Network Security, W.Stallings, Prentice Hall.

| LESSON PLAN | | | | | | |
|---|-------------------------|--|--|--|--|--|
| JHARSUGUDA ENGINEEI | RING SCHOOL,JHARSUGUDA | | | | | |
| Name of the Faculty: Mrs. Barsha Rani Patel | Academic Year: 2019-20 | | | | | |
| Course No.: Th.1 | Course Name: E-Commerce | | | | | |
| Program: Diploma | Branch: IT | | | | | |
| Year / Semester : III/ VI | Section: | | | | | |

| Sl. No. | Period /Class | Time (min) | Unit | Topic to be covered | Teaching method |
|------------|------------------|---------------|------|--|-----------------|
| 1. | 1. | 55 | 1 | Introduction to E-commerce | Chalk & talk |
| 2. | 2. | 55 | 1 | What is E-commerce | Chalk & talk |
| 3. | 3. | 55 | 1 | E-Business | Chalk & talk |
| 4. | 4. | 55 | 1 | Categories of E-Commerce Applications | Chalk & talk |
| 5. | 5. | 55 | 1 | Global Training Environment& Adoption of E-commerce | Chalk & talk |
| 6. | 6. | 55 | 1 | Comparison Between Traditional and E- commerce | Chalk & talk |
| 7. | 7. | 55 | 1 | Advantage and Disadvantage | Chalk & talk |
| 8. | 8. | 55 | 1 | Revision Chapter -1 | Questioner |
| 9. | 9. | 55 | 2 | Business Model of E-Commerce | Chalk & talk |
| 10. | 10. | 55 | 2 | B2C,B2B | Chalk & talk |
| 11. | 11. | 55 | 2 | Difference between B2C , B2C and C2C | Chalk & talk |
| 12. | 12. | 55 | 2 | Revision Chapter-2 | Questioner |
| 13. | 13. | 55 | 3 | B2B e-Commerce and EDI | Chalk & talk |
| 14. | 14. | 55 | 3 | Need for B2B | Chalk & talk |
| 15. | 15. | 55 | 3 | EDI Standards | Chalk & talk |
| 16. | 16. | 55 | 3 | Paperless Transaction | Chalk & talk |
| 17. | 17. | 55 | 3 | Data Standards use in EDI & Cost of EDI | Chalk & talk |
| 18. | 18. | 55 | 3 | Reasons for Slow acceptability | Chalk & talk |
| 19. | 19. | 55 | 3 | Electronic Fund Transfer | Chalk & talk |
| 20. | 20. | 55 | 3 | XML and its Application | Chalk & talk |
| 21. | 21. | 55 | 3 | Comparison of HTML and XML | Chalk & talk |
| 22. | 22. | 55 | 3 | Advantage of XML as a Technology | Chalk & talk |
| 23. | 23. | 55 | 3 | Revision Chapter-3 | Questioner |
| 24. | 24. | 55 | 4 | Business Applications of E-Commerce | Chalk & talk |
| 25. | 25. | 55 | 4 | Trade Cycle, Supply Chain | Chalk & talk |
| 26. | 26. | 55 | 4 | E-Procurement & Implementing | Chalk & talk |
| 27. | 27. | 55 | 4 | Competitive Advantage | Chalk & talk |
| 28. | 28. | 55 | 4 | E-Commerce Application in Wholesale, Manufacturing & Retail | Chalk & talk |
| 29. | 29. | 55 | 4 | E-Commerce Application in Service Sector | Chalk & talk |
| 30. | 30. | 55 | 4 | Revision Chapter-4 | Questioner |
| 31. | 31. | 55 | 5 | E-Commerce in Technology | Chalk & talk |
| 32. | 32. | 55 | 5 | IT infrastructure | Chalk & talk |
| 33. | 33. | 55 | 5 | Internet, Intranet, Extranet | Chalk & talk |

| 34. | 34. | 55 | 5 | Middleware | Chalk & talk |
|-----|-----|----|---|--|--------------|
| 35. | 35. | 55 | 5 | VPN, Firewall, Cryptography | Chalk & talk |
| 36. | 36. | 55 | 5 | Digital Signature, Envelope, Certificate | Chalk & talk |
| 37. | 37. | 55 | 5 | Revision Chapter-5 | Questioner |
| 38. | 38. | 55 | 6 | Electronic Payment System | Chalk & talk |
| 39. | 39. | 55 | 6 | Electronic Payment Mechanism | Chalk & talk |
| 40. | 40. | 55 | 6 | Type of Payment System | Chalk & talk |
| 41. | 41. | 55 | 6 | Risk Associated with Electronic Payment | Chalk & talk |
| 42. | 42. | 55 | 6 | Risk Management Option | Chalk & talk |
| 43. | 43. | 55 | 6 | Payment Gateway | Chalk & talk |
| 44. | 44. | 55 | 6 | Issue of Electronic Payment Technology | Chalk & talk |
| 45. | 45. | 55 | 6 | Recommendation | Chalk & talk |
| 46. | 46. | 55 | 6 | Internet Banking & Security Requirement | Chalk & talk |
| 47. | 47. | 55 | 6 | Secure Socket Layer | Chalk & talk |
| 48. | 48. | 55 | 6 | Biometric | Chalk & talk |
| 49. | 49. | 55 | 6 | Revision Chapter-6 | Questioner |
| 50. | 50. | 55 | 7 | Security Issues in E-Commerce | Chalk & talk |
| 51. | 51. | 55 | 7 | E-Commerce Security Issue | Chalk & talk |
| 52. | 52. | 55 | 7 | Risk involved in E-Commerce | Chalk & talk |
| 53. | 53. | 55 | 7 | Protecting E-Commerce System | Chalk & talk |
| 54. | 54. | 55 | 7 | Common E-Commerce Security Tools | Chalk & talk |
| 55. | 55. | 55 | 7 | Client Server Network Security | Chalk & talk |
| 56. | 56. | 55 | 7 | Data and Message Security | Chalk & talk |
| 57. | 57. | 55 | 7 | Revision Chapter-7 | Questioner |
| 58. | 58. | 55 | 8 | Current Trends in Electronic world | Chalk & talk |
| 59. | 59. | 55 | 8 | E-waste, Surveillance, governance, care | Chalk & talk |
| 60. | 60. | 55 | 8 | Problems & Revision Chapter-8 | Chalk & talk |

| Text Book | Name of the Book |
|---------------|--|
| (TB) | E-commerce and Mobile Commerce Technology By: U.S Pandey and S Sukla (S.Chand) |

| LESSON PLAN | | | | | | |
|--|--|--|--|--|--|--|
| JHARSUGUDA ENGINEER | RING SCHOOL,JHARSUGUDA | | | | | |
| Name of the Faculty: Mrs. Barsha Rani Patel Academic Year: 2019-20 | | | | | | |
| Course No.: Th.2 | Course Name: Internet & Web Technology | | | | | |
| Program: Diploma | Branch: IT | | | | | |
| Year / Semester : III/ VI | Section: | | | | | |

| Sl. No. | Period /Class | Time (min) | Unit | Topic to be covered | Teaching method |
|------------|------------------|---------------|------|---|-----------------|
| 1. | 1. | 55 | 1 | Internet fundamental | Chalk & talk |
| 2. | 2. | 55 | 1 | Motivation for internet working. | Chalk & talk |
| 3. | 3. | 55 | 1 | Internet architecture board, protocol and standardization. | Chalk & talk |
| 4. | 4. | 55 | 1 | Role of ISP and factors of choosing an ISP. | Chalk & talk |
| 5. | 5. | 55 | 1 | Internet service providers in India. | Chalk & talk |
| 6. | 6. | 55 | 1 | Types of connectivity such as dial up, leased, VSAT etc. | Chalk & talk |
| 7. | 7. | 55 | 1 | Internet Properties, architecture. | Chalk & talk |
| 8. | 8. | 55 | 1 | Interconnection through IP router, Internet address. | Chalk & talk |
| 9. | 9. | 55 | 1 | Original cassfull addressing scheme, Address specify network connections, Dotted decimal notation | Chalk & talk |
| 10. | 10. | 55 | 1 | Internet addressing authority | Chalk & talk |
| 11. | 11. | 55 | 2 | TCP / IP internet layering model | Chalk & talk |
| 12. | 12. | 55 | 2 | Reliable stream transport service Need for stream delivery, delivery service, Providing reliability, Idea behind slide window | Chalk & talk |
| 13. | 13. | 55 | 2 | Port connection and end points, segments, streams sequence numbers | Chalk & talk |
| 14. | 14. | 55 | 2 | TCP segment format, header, checksum | Chalk & talk |
| 15. | 15. | 55 | 2 | Timeout and retransmission, Respond to conjunction, Establishment of a TCP connection, Source and destination address | Chalk & talk |
| 16. | 16. | 55 | 2 | Protocol No., Closing TCP connection, reset | Chalk & talk |
| 17. | 17. | 55 | 2 | Revision of Chapter 2 | Chalk & talk |
| 18. | 18. | 55 | 3 | Connectionless data gram delivery, Concept of unreliable delivery, Connectionless delivery system | Chalk & talk |
| 19. | 19. | 55 | 3 | Propose of internet protocol, IP header, Source and destination address | Chalk & talk |
| 20. | 20. | 55 | 3 | Protocol number, Checksum | Chalk & talk |

| 21. | 21. | 55 | 3 | Rooting in an internet, Direct and indirect delivery | Chalk & talk |
|-----|-----|----|---|--|--------------|
| 22. | 22. | 55 | 3 | Table driven IP root, Default root, Host specific roots, Rooting with IP address | Chalk & talk |
| 23. | 23. | 55 | 3 | Revision of Chapter 3 | Chalk & talk |
| 24. | 24. | 55 | 4 | Introduction to subnet address extension | Chalk & talk |
| 25. | 25. | 55 | 4 | Minimizing network number, Transparent routers, Subnet addressing | Chalk & talk |
| 26. | 26. | 55 | 4 | Flexibility in subnet address assignment | Chalk & talk |
| 27. | 27. | 55 | 4 | SImplementation of subnet with mask | Chalk & talk |
| 28. | 28. | 55 | 4 | Subnet mask representation | Chalk & talk |
| 29. | 29. | 55 | 4 | Routing in the presence of subnet | Chalk & talk |
| 30. | 30. | 55 | 4 | Revision of Chapter 4 | Chalk & talk |
| 31. | 31. | 55 | 5 | Introduction to UDP, Identifying the ultimate destination | Chalk & talk |
| 32. | 32. | 55 | 5 | Format of UDP message | Chalk & talk |
| 33. | 33. | 55 | 5 | Revision of Chapter 5 | Chalk & talk |
| 34. | 34. | 55 | 6 | Hierarchical names, Subnet authority | Chalk & talk |
| 35. | 35. | 55 | 6 | Internet domain names | Chalk & talk |
| 36. | 36. | 55 | 6 | Mapping of domain name to address | Chalk & talk |
| 37. | 37. | 55 | 6 | Domain name resolution | Chalk & talk |
| 38. | 38. | 55 | 6 | Efficient translation | Chalk & talk |
| 39. | 39. | 55 | 6 | Abbreviation of domain name | Chalk & talk |
| 40. | 40. | 55 | 6 | Revision of Chapter 6 | Chalk & talk |
| 41. | 41. | 55 | 7 | E-Mail network, E-Mail protocols | Chalk & talk |
| 42. | 42. | 55 | 7 | Format of an e-mail message | Chalk & talk |
| 43. | 43. | 55 | 7 | E-Mail routing, E-Mail clients, POP3, IMAP | Chalk & talk |
| 44. | 44. | 55 | 7 | Public domain software | Chalk & talk |
| 45. | 45. | 55 | 7 | Types of FTP servers, FTP clients, Telnet protocol, Server domain | Chalk & talk |
| 46. | 46. | 55 | 7 | Clients | Chalk & talk |
| 47. | 47. | 55 | 7 | IRC network & servers, Channels,www, Browser | Chalk & talk |
| 48. | 48. | 55 | 7 | Revision of Chapter 7 | Chalk & talk |
| 49. | 49. | 55 | 8 | Document overview explain header elements | Chalk & talk |
| 50. | 50. | 55 | 8 | Section heading | Chalk & talk |
| 51. | 51. | 55 | 8 | Block oriented elements discuss list | Chalk & talk |
| 52. | 52. | 55 | 8 | Inline elements, Visual markup, Hypertext links | Chalk & talk |
| 53. | 53. | 55 | 8 | Uniform resource locator discuss imagers | Chalk & talk |
| 54. | 54. | 55 | 8 | Tables ,Special characters | Chalk & talk |
| 55. | 55. | 55 | 8 | CGI (common gateway interface) explain active X | Chalk & talk |
| 56. | 56. | 55 | 8 | VB script, Java script, XML application | Chalk & talk |
| 57. | 57. | 55 | 8 | XML rules, Displaying XML documents, Parts | Chalk & talk |

| 58. | 58. | 55 | 8 | Concepts of DTD | Chalk & talk |
|-----|-----|----|---|--|--------------|
| 59. | 59. | 55 | 8 | Entity definition & classification concepts of | Chalk & talk |
| | | | | templates &its use filtering & sorting. | |
| 60. | 60. | 55 | 8 | Revision of Chapter 8 | Chalk & talk |

| Text Book (TB) | Name of the Book |
|-------------------|--|
| 1 | Internet working with TCP / IP Vol-1; Principles, Protocols & Architecture By Douglas E. Corner - PHI |
| 2 | HTML : The definitive guide – By Chuck Musciano& Kennedy |
| 3 | Internet working with TCP?IP Vol II : Design, implementation & internals By Douglas E. Corner & David L. Stevens - PHI |
| 4 | Internet and web page design By Sisodia : BPB publication |
| 5 | Web technologies By U.K Roy, Oxford Univ. Press |

| LESSON PLAN | | | | |
|---|-------------------------------|--|--|--|
| JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA | | | | |
| Name of the Faculty: Mr. Sabyasachi Sarangi | Academic Year: 2019-20 | | | |
| Course No.: ITT-601 | Course Name: Mobile Computing | | | |
| Program: Diploma | Branch: IT | | | |
| Year / Semester : III/ VI | Section: | | | |

| Sl. No. | Period /Class | Time (min) | Unit | Topic to be covered | Teaching method |
|------------|------------------|---------------|------|---|-----------------|
| 1. | 1. | 55 | 1 | Networks | Chalk & talk |
| 2. | 2. | 55 | 1 | Wireless Networks | Chalk & talk |
| 3. | 3. | 55 | 1 | Mobile Computing, Application & Characteristics | Chalk & talk |
| 4. | 4. | 55 | 1 | Revision of Chapter 1 | Questioner |
| 5. | 5. | 55 | 2 | C/S architecture | Chalk & talk |
| 6. | 6. | 55 | 2 | n-tier architecture and www | Chalk & talk |
| 7. | 7. | 55 | 2 | Peer-to Peer architecture | Chalk & talk |
| 8. | 8. | 55 | 2 | Mobile agent architecture | Chalk & talk |
| 9. | 9. | 55 | 2 | Revision of Chapter 2 | Questioner |
| 10. | 10. | 55 | 3 | Introduction | Chalk & talk |
| 11. | 11. | 55 | 3 | Signals | Chalk & talk |
| 12. | 12. | 55 | 3 | Period, Frequency and Bandwidth. | Chalk & talk |
| 13. | 13. | 55 | 3 | Antennas, Signal Propagation, Multiplexing | Chalk & talk |
| 14. | 14. | 55 | 3 | Modulation, Spread Spectrum, Cellular System | Chalk & talk |
| 15. | 15. | 55 | 3 | Revision of Chapter 3 | Questioner |
| 16. | 16. | 55 | 4 | Introduction | Chalk & talk |
| 17. | 17. | 55 | 4 | Hidden/ Exposed Terminals | Chalk & talk |
| 18. | 18. | 55 | 4 | The basic Access Method | Chalk & talk |
| 19. | 19. | 55 | 4 | Near / Far Terminals | Chalk & talk |
| 20. | 20. | 55 | 4 | SDMA, FDMA, TDMA, CDMA | Chalk & talk |
| 21. | 21. | 55 | 4 | Revision of Chapter 4 | Questioner |
| 22. | 22. | 55 | 5 | Wireless LAN and communication | Chalk & talk |
| 23. | 23. | 55 | 5 | Infrared, Radio Frequency | Chalk & talk |
| 24. | 24. | 55 | 5 | IR Advantages and Disadvantages | Chalk & talk |
| 25. | 25. | 55 | 5 | RF Advantages and Disadvantages | Chalk & talk |
| 26. | 26. | 55 | 5 | Wireless Network Architecture Logical | Chalk & talk |
| 27. | 27. | 55 | 5 | Types of WLAN, IEEE 802.11, MAC layer | Chalk & talk |
| 28. | 28. | 55 | 5 | Security, Synchronization | Chalk & talk |
| 29. | 29. | 55 | 5 | Power Management, Roaming | Chalk & talk |
| 30. | 30. | 55 | 5 | Bluetooth Overview | Chalk & talk |
| 31. | 31. | 55 | 5 | Revision of Chapter 5 | Questioner |
| 32. | 32. | 55 | 6 | Introduction | Chalk & talk |
| 33. | 33. | 55 | 6 | Scenario of Mobile Communication | Chalk & talk |
| 34. | 34. | 55 | 6 | Mobile Communication Generations 1G to 3G | Chalk & talk |

| 35. | 35. | 55 | 6 | 3rd Generation Mobile Communication Network | Chalk & talk |
|-----|-----|----|----|---|--------------|
| 36. | 36. | 55 | 6 | Universal Mobile telecommunication System (UMTS | Chalk & talk |
| 37. | 37. | 55 | 6 | Revision of Chapter 6 | Questioner |
| 38. | 38. | 55 | 7 | Overview | Chalk & talk |
| 39. | 39. | 55 | 7 | Working with mobile IP | Chalk & talk |
| 40. | 40. | 55 | 7 | Mobile IP Entities, Mobility Agents | Chalk & talk |
| 41. | 41. | 55 | 7 | Components of Mobile IP | Chalk & talk |
| 42. | 42. | 55 | 7 | Mobile IPv6 Features, Address Types, | Chalk & talk |
| | | | | Address Scope | |
| 43. | 43. | 55 | 7 | Revision of Chapter 7 | Questioner |
| 44. | 44. | 55 | 8 | WWW architecture for Mobile computing | Chalk & talk |
| 45. | 45. | 55 | 8 | Need of WAP, Benefits of WAP, Examples of | Chalk & talk |
| | | | | WAP, WAP- Architecture, WAP protocols | |
| 46. | 46. | 55 | 8 | WML, WAP Push architecture | Chalk & talk |
| 47. | 47. | 55 | 8 | Push-Pull based data acquisition | Chalk & talk |
| 48. | 48. | 55 | 8 | I-mode | Chalk & talk |
| 49. | 49. | 55 | 8 | WAP 2.x | Chalk & talk |
| 50. | 50. | 55 | 8 | Revision of Chapter 8 | Questioner |
| 51. | 51. | 55 | 9 | GSM | Chalk & talk |
| 52. | 52. | 55 | 9 | GPRS | Chalk & talk |
| 53. | 53. | 55 | 9 | IS-95 | Chalk & talk |
| 54. | 54. | 55 | 9 | CDMA-2000, W-CDMA | Chalk & talk |
| 55. | 55. | 55 | 9 | Wireless Sensor Networks | Chalk & talk |
| 56. | 56. | 55 | 9 | Revision of Chapter 9 | Chalk & talk |
| 57. | 57. | 55 | 10 | Short Message Services (SMS) | Chalk & talk |
| 58. | 58. | 55 | 10 | Multimedia Message Services (MMS) | Chalk & talk |
| 59. | 59. | 55 | 10 | Multimedia transmission over wireless | Chalk & talk |
| 60. | 60. | 55 | 10 | Revision of Chapter 10 | Questioner |

| Text Book (TB) | Name of the Book |
|-------------------|--|
| 1 | Mobile Computing; By: Dr. N.NJani, Kamaljit I. Lakhtaria, Dr. Ashish N. Jani & Nita Kanabar (S.Chand & Company Ltd.) |

| LESSON PLAN | | | | | |
|--|--|--|--|--|--|
| JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA | | | | | |
| Name of the Faculty: Mr. Sabyasachi Sarangi Academic Year: 2019-20 | | | | | |
| Course No.: ITT-602 | Course Name: Software Project Management | | | | |
| Program: Diploma | Branch: IT | | | | |
| Year / Semester : III/ VI | Section: | | | | |

| Sl. No. | Period /Class | Time (min) | Unit | Topic to be covered | Teaching method |
|------------|------------------|------------|------|---|-----------------|
| 1. | 1. | 55 | 1 | Introduction to Software Project Management | Chalk & talk |
| 2. | 2. | 55 | 1 | Introduction | Chalk & talk |
| 3. | 3. | 55 | 1 | Why is software project management important | Chalk & talk |
| 4. | 4. | 55 | 1 | What is a Project | Chalk & talk |
| 5. | 5. | 55 | 1 | Software project versus other types of project | Chalk & talk |
| 6. | 6. | 55 | 1 | Contract Management and technical project | Chalk & talk |
| | | | | management | |
| 7. | 7. | 55 | 1 | Activities covered by software project | Chalk & talk |
| | | | | management | |
| 8. | 8. | 55 | 1 | Plans, methods and methodologies | Chalk & talk |
| 9. | 9. | 55 | 1 | Some ways of categorizing software project | Questioner |
| 10. | 10. | 55 | 1 | What is management | Chalk & talk |
| 11. | 11. | 55 | 1 | Problems with software projects | Chalk & talk |
| 12. | 12. | 55 | 1 | Setting objects | Chalk & talk |
| 13. | 13. | 55 | 1 | Stakeholders | Chalk & talk |
| 14. | 14. | 55 | 1 | Revision of Chapter 1 | Chalk & talk |
| 15. | 15. | 55 | 1 | Old Question Discussion | Questioner |
| 16. | 16. | 55 | 2 | Chapter2: Step wise an overview of Project Planning | Chalk & talk |
| 17. | 17. | 55 | 2 | Introduction to step wise project planning | Chalk & talk |
| 18. | 18. | 55 | 2 | Step 0: Select Project | Chalk & talk |
| 19. | 19. | 55 | 2 | Step 1: Identify project scope and objectives | Chalk & talk |
| 20. | 20. | 55 | 2 | Step 2: Identify project infrastructure | Chalk & talk |
| 21. | 21. | 55 | 2 | Step 3: Analyse project characteristics | Questioner |
| 22. | 22. | 55 | 2 | Step 4: Identify Project products and activities | Chalk & talk |
| 23. | 23. | 55 | 2 | Step 5: Estimate effort for each activity | Chalk & talk |
| 24. | 24. | 55 | 2 | Step 6: Identify activity risks | Chalk & talk |
| 25. | 25. | 55 | 2 | Step 7: Allocate resources | Chalk & talk |
| 26. | 26. | 55 | 2 | Step 8: Review/ publicize plan | Chalk & talk |
| 27. | 27. | 55 | 2 | Step 9 and 10: Execute plan/lower levels of | Chalk & talk |
| | | | | planning | |
| 28. | 28. | 55 | 2 | Revision of Chapter 2 | Chalk & talk |
| 29. | 29. | 55 | 2 | Old Question Discussion | Questioner |
| 30. | 30. | 55 | 3 | Chapter 3: Programme Management and Project | Chalk & talk |
| | | | | evaluation | |
| 31. | 31. | 55 | 3 | Introduction | Chalk & talk |
| 32. | 32. | 55 | 3 | Programme management | Chalk & talk |

| 33. | 33. | 55 | 3 | Managing the allocation of resources within | Chalk & talk |
|-----|-----|----|---|--|--------------|
| | | | | programme. | |
| 34. | 34. | 55 | 3 | Strategic programme management | Chalk & talk |
| 35. | 35. | 55 | 3 | Creating a programme | Chalk & talk |
| 36. | 36. | 55 | 3 | Aids to Programme management | Chalk & talk |
| 37. | 37. | 55 | 3 | Benefits management | Questioner |
| 38. | 38. | 55 | 3 | Evaluation of Individual Project | Chalk & talk |
| 39. | 39. | 55 | 3 | Technical assessment | Chalk & talk |
| 40. | 40. | 55 | 3 | Cost-benefit analysis | Chalk & talk |
| 41. | 41. | 55 | 3 | Cash flow forecasting | Chalk & talk |
| 42. | 42. | 55 | 3 | Cost-benefit evaluation techniques | Chalk & talk |
| 43. | 43. | 55 | 3 | Risk evaluation | Questioner |
| 44. | 44. | 55 | 3 | Revision of Chapter 3 | Chalk & talk |
| 45. | 45. | 55 | 3 | Old Question Discussion | Questioner |
| 46. | 46. | 55 | 4 | Selection of an appropriate project approach | Chalk & talk |
| 47. | 47. | 55 | 4 | Introduction | Chalk & talk |
| 48. | 48. | 55 | 4 | Choosing Technologies | Chalk & talk |
| 49. | 49. | 55 | 4 | Technical Plan contents list | Chalk & talk |
| 50. | 50. | 55 | 4 | Choice of Process Models | Chalk & talk |
| 51. | 51. | 55 | 4 | Structure versus speed of delivery | Chalk & talk |
| 52. | 52. | 55 | 4 | The waterfall model | Chalk & talk |
| 53. | 53. | 55 | 4 | The V-process model | Chalk & talk |
| 54. | 54. | 55 | 4 | The spiral model | Chalk & talk |
| 55. | 55. | 55 | 4 | Software Prototyping | Chalk & talk |
| 56. | 56. | 55 | 4 | Other ways of categorizing prototypes | Chalk & talk |
| 57. | 57. | 55 | 4 | Incremental delivery | Chalk & talk |
| 58. | 58. | 55 | 4 | Selecting the most appropriate model | Chalk & talk |
| 59. | 59. | 55 | 4 | Revision of Chapter 4 | Chalk & talk |
| 60. | 60. | 55 | 4 | Old Question Discussion | Questioner |

| Text Book (TB) | Name of the Book |
|-------------------|--|
| 1 | Software Project Management ; By : Bob Hughes and Mike Cotterell (TMH) |