**SARDAR PATEL EDUCATION CAMPUS**

**SARDAR PATEL COLLEGE OF ENGINEERING, BAKROL**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**SUBJECT: WIRELESS COMMUNICATION**

**SUBJECT CODE: 3171608**

**DATE: 8/7/21**

Assignment-1

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | |  | | --- | | Write about Evolution of mobile communications. | |  |
| 2. | |  | | --- | | Write note on Comparison of Common wireless system in detail. | |  |
| 3. | |  | | --- | | Explain Second generation Cellular Networks, Third Generation (3G) Wireless Networks in detail. | |  |
| 4. | |  | | --- | | Explain Wireless Local Loop (WLL), Wireless Local Area Network (WLAN) in detail | |  |

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**DATE: 28/7/21**

Assignment-2

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | |  | | --- | | Explain Hexagonal geometry cell and concept of frequency reuse in detail. | |  |
| 2. | |  | | --- | | Explain S/I ratio consideration and calculation for Minimum Co- channel and adjacent interference in detail. | |  |
| 3. | |  | | --- | | Write note on Handoff Strategies and Umbrella Cell Concept in detail. | |  |
| 4. | |  | | --- | | Write note on Capacity in Cellular System-cell splitting, Cell sectorization in detail. | |  |

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**DATE: 12/8/21**

Assignment-3

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | |  | | --- | | Explain Free Space Propagation loss equation in detail | |  |
| 2. | |  |  | | --- | --- | | |  | | --- | | Write note on Reflection, Diffraction and Scattering with example. | | |  |
| 3. | |  | | --- | | Write about Empirical formula for path loss in detail. | |  |
| 4. | |  | | --- | | Explain Small scale multipath propagation in detail. | |  |

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**DATE : 30/8/21**

Assignment-4

|  |  |  |
| --- | --- | --- |
| 1. | Explain TDMA in detail. |  |
| 2. | Write down difference between CDMA and FDMA. |  |
| 3. | Explain OFDM in detail. |  |
| 4. | Explain CSMA in detail. |  |