Lesson Plan

**B.Sc (Electronics) Semester-V**

**paper II- Electronic Communication**

Teacher name: Mr. SK Bathla

October 2020

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| Modulation & demodulation :Principle of modulation , amplitude modulation ,percent modulation ,upper & lower side frequencies ,upper & lower side bands, mathematical analysis of a modulated carrier wave, power relations in an AM wave,simple ideaabout different forms of amplitude modulation. A) DSB-SC B) SSB-TC C) SSBSC, amplitude modulating amplifier circuit |

November 2020

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| AM generation plate , and grid modulated system,.  Frequency modulation , FM Sidebands, modulation index and number of side bands,mathematical expression for FM wave, Demodulation, diode detector for AM signals. FM detector , Limited and phase shift detectors, comparison between AM & FM. |

December 2020

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| TV fundamentals: elements of TV system ( 625 line), Aspect ratio, scanning, progressive and inter-laced scanning, number of scanning lines and vertical resolution, Kell factor, horizontal resolution and video band width, |

January2021

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| factors affecting video band width, composite video signals (concept only)  Block diagram of monochrome TV transmitter and receiver, Videocon camera tube Color TV: Compatibility, three color theory, luminance, |

February 2021

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| Hue and saturation, generation of luminance and color difference signals, chrominance signals. |