**Department of Electronics & Communication Engineering**

**Faculty Name:** Praveen Singh

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| **Teacher’s Name** | **Subject** | **Topic Name** | **Sub-Topic Name** | **Type of E-Content** | **Course Name** | **Year of Course** | **Link** |
| Praveen Singh | Integrated Circuit Technology | Unit-2 | **Oxidation:** Growth Kinetics, Thin oxides, Oxidation Techniques and systems, Oxide properties | PDF | B.Tech (EC-8th Sem.) | 2019-2020 | <https://classroom.google.com/c/NTczNDcxMTQwMjRa> |
| Unit-2 | **Lithography:** Optical lithography, Photo masks, Wet chemical etching, Dielectric and Polysilicon film deposition | PDF | B.Tech (EC-8th Sem.) | 2019-2020 | Whatsapp Group  (Shared) |
| Unit-3 | **Diffusion:** Diffusion of impurities in silicon, Diffusion Equations, Profile, furnace, solid liquid gaseous sources, Sheet resistance and measurement | PDF | B.Tech (EC-8th Sem.) | 2019-2020 | Whatsapp Group  (Shared) |
| Unit-3 | **Ion implantation:** various techniques, range theory, equipments | PDF | B.Tech (EC-8th Sem.) | 2019-2020 | Whatsapp Group  (Shared) |
| Unit-4 | **Metallization:** metallization applications, choices, VD, Sputtering Apparatus | PDF | B.Tech (EC-8th Sem.) | 2019-2020 | Whatsapp Group  (Shared) |

References:

[1]. Integrated Circuit Design and Technology Book by M. J. Morant

[2]. NPTEL Notes (PDF contents)

[3]. Google