

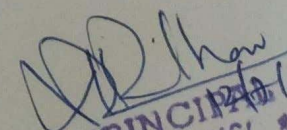
PNS SCHOOL OF ENGINEERING AND TECHNOLOGY, MARSHAGHAI, KENDRAPARA

LESSON PLAN

| Branch: ETC Engineering. Subject: Pr-3 Digital Electronics Lab. | Sem-3rd No. of days per week Class Allotted | Name of the teaching faculty: Anjana Tripathy Semester From Date :14.07.2025 to 15.11.2025 No. of weeks : 14 |
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| MONTH | WEEK | PRACTICAL TOPIC |
| July | 1st | Familiarization of Digital Trainer Kit, Logic Pulser Light probes & Digital Ics, IE-7400, 7402, 7404, 7408, 7432 & 7486 (Draw Pin Diagrams) |
| | 2nd | Verify truth table of AND, OR, NOT, NOR, NAND, & OR, X-NOR gates |
| | 3rd | Implement various gates by using universal of NAND & NOR Gates |
| | 3rd | Implement various gates by using universal of NAND & NOR Gates |
| August | 4th | Implement various gates by using universal of NAND & NOR Gates |
| | 5th | Implement half adder and full adder using logic gates |
| | 5th | Construct & verify operation of full adder using logic gates. |
| | 6th | Construct & verify operation of half subtractor using logic gates. |
| | 6th | Construct & verify operation of full subtractor using logic gates. |
| | 7th | Design & Implement a 4-bit Binary to gray Code Converter. |
| September | 7th | Design & Implement a 4-bit Binary to gray Code Converter. |
| | 8th | Design & Implement a single bit Digital Comparator Circuit. |
| | 8th | Design & Implement a two bit Digital Comparator Circuit. |
| | 9th | Design Multiplexer (4 : 1) |
| | 9th | Design De-Multiplexer (1 : 4) |
| October | 10th | Study the operation of Flip-Flop, S.R Flip Flop |
| | 10th | Study the operation of J.K. Flip Flop |
| | 11th | Study the operation of D Flip Flop, T Flip Flop |
| | 11th | Realize a 4-bit a synachronous up/down counter with a control for up/dow counting. |
| November | 11th | Realize a 4-bit a synachronous up/down counter with a control for up/dow counting. |
| | 12th | Study Shift Registers |
| | 13th | Verify the operation 8-bit D/A and A/D Conversion & Test. |
| | 14th | Verify the operation 8-bit D/A and A/D Conversion & Test. |

SIGNATURE OF H.O.D

SIGNATURE OF DEMONSTRATOR


PRINCIPAL
 PNS SCHOOL OF ENGG. & TECH
 Nishamoni Vihar, Marshaghai