JHARKHAND Rai University
RANCHI
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# Lesson Plan & Tracking

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| **Course: Computer Architecture and Organization Lab** | **Session : 2021-2024** | **Year : II** | **Sem : III** |
| **Faculty name: Rajan Kr. Tiwari** | | | |
| **Programme: B. Tech (CSE)** | **Commencement Date: 29/08/2022** | **Date of Closure: 30.12.2022** | |

| Weeks | Topic to be covered | Date | Tracking | Signature Faculty | Signature HOD |
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| **Week-1** | 1. To design the circuit of half adder. | | | | |
| **Week-2** | 2. To design the circuit of full adder.<br>3. To design the circuit of half subtractor. | | | | |
| **Week-3** | 4. To design the circuit of full subtractor<br>5. To design an 8×1 Multiplexer | | | | |
| **Week-4** | 6. To design a 4 bit combinational shifter 7. 7. To design a BCD adder. | | | | |
| **Week-5** | 8. To design a 4-bit adder subtractor | | | | |
| **Week-6** | 9. To design 2:4 Decoder | | | | |

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| **Week-7** | 10. Write the working of 8085 simulator GNUsim8085 and basic architecture of 8085 along with small introduction | | | | |
| **Week-8** | 11. Study the complete instruction set of 8085 and write the instructions in the instruction set of 8085 along with examples | | | | |
| **Week-9** | 12. Write an assembly language code in GNUsim8085 to implement data transfer instruction | | | | |
| **Week-10** | 13. Write an assembly language code in GNUsim8085 to store numbers in reverse order in memory location | | | | |
| **Week-11** | 14. Write an assembly language code in GNUsim8085 to implement arithmetic instruction | | | | |
| **Week-12** | 15. Write an assembly language code in GNUsim8085 to find the factorial of a number. | | | | |