**Electronics and Communication Technology II LAB**

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| Program: Bachelor of Science Honours (Information Technology) | | | | | | | Semester: II | | | |
| Course: Electronics & Communication Technology II LAB | | | | | | | Code: | | | |
| Teaching Scheme | | | | | Evaluation Scheme | | | | | |
| Lecture | Practical | Tutorial | | Credits | Theory | | | | Practical | |
| Internal | External | | | Internal | External |
| Nil | 15X2 | Nil | | 01 | Nil | Nil | | | 20 Marks | 30 Marks |
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| Internal Component | | | | | | | | | | |
| Machine Test Duration Mins | | | Assignment& projects | | | | | Class Participation | | |
| 30 Marks | | | 20 Marks Mini Project | | | | | Nil | | |
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| Pedagogy   * PPTs, Case studies, Group discussions, Classroom Activity, Videos, Research papers, News articles etc. | | | | | | | | | | |

**Title of Experiments**

1. Use of programming tools (Debug/TASM/MASM/8086kit) to perform basic arithmetic operations on 8-bit/16-bit data
2. Code conversion (Hex to BCD and BCD to Hex)/ (ASCII to BCD and BCD to ASCII)
3. Assembly programming for 16-bit addition, subtraction, multiplication and division

(menu based)

1. Assembly program based on string instructions (overlapping/non-overlapping block

transfer/ string search/ string length)

1. Assembly program to display the contents of the flag register.
2. Any Mixed Language programs.
3. Assembly program to find the GCD/ LCM of two numbers
4. Assembly program to sort numbers in ascending/ descending order
5. Any program using INT 10H
6. Assembly program to find minimum/ maximum number from a given array.
7. Assembly Program to display a message in different color with blinking
8. Assembly program using procedure.