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| Department of Chemical Engineering | LP: CH18711 Rev. No: 0 |
| B.E/B.Tech/M.E/M.Tech : <u>Chemical Engineering</u> Regulation:2018 A | Date: 08.07.2024 |
| PG Specialisation : N/A | |
| Sub. Code / Sub. Name : CH18711 – Process Control Laboratory | |

| Session No* | List of Experiments |
|-----------------|--|
| CYCLE-I | |
| 1 | Open loop study of first order system |
| 2 | Open loop study of second order system |
| 3 | Response of Non-Interacting level System |
| 4 | Closed loop study on a flow system |
| 5 | Closed loop study on a pressure system |
| 6 | Closed loop study on a thermal system |
| CYCLE-II | |
| 7 | Response of Interacting level System |
| 8 | Characteristics of different types of control valves |
| 9 | Closed loop study on a level system |
| 10 | Digital simulation of linear system |
| 11 | Closed loop study of Ratio Control Pressure System |
| 12 | Closed loop study on a CSTR |
| 13 | Studies on Tuning of a level system |
| 14 | Studies on Distributed Control system |

Content beyond syllabus (if any):

* Session Duration: 150 minutes, # DemoExperiment



Sub. Code / Sub. Name: CH18711 Process Control Laboratory

| | Prepared by | Approved by |
|-------------|--|-------------------------------|
| Signature | 1) <i>[Signature]</i> (R. GOVINDARAO) 2) <i>[Signature]</i> (SUDHA. G) 3) <i>[Signature]</i> (S. Jai Ganesh) | <i>[Signature]</i> 9/7/24. |
| Name | Dr. R. Govindarasu ¹ / Dr. G. Sudha ¹ Mr. S. Jai Ganesh ² | Dr. N. Meyyappan |
| Designation | Associate Professor ¹ Assistant Professor ² /CHE | HOD/CHE |
| Date | 09.07.2024 | 9/7/24. |
| Remarks* : | | |
| Remarks* : | | |

* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD