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| Course Name [科目名] | Electronic Engineering Laboratory |
| Instructor Name [教員] |  |
| Course Structure [授業形態] | Work in Laboratory |
| Course Credits [単位数] | 3 |
| Course Overview [概要] | This course is totally experimental works in the laboratory about electronic engineering field. Under the consultation with laboratory staff, Several themes would be selected by each student. This laboratory works will cover experimental topics on the following courses, i.e.  1) system electronics course  2) electronic and information engineering course |
| Course Key Words [キーワード] | Laboratory work |
| Academic Goal [目標] | 1. able to obtain the experimental skills for the Electronic Engineering field  2. able to explain and develop ideas of experimental data based on experiences of each student |
| Course Schedule [授業内容] | Week 1: Orientation and introduction of this course  The safety training about electric and electronic engineering  Week 2-10  Following experimental themes are scheduled under consultation with laboratory staff  1) Modulation, demodulation and communication electronics  2) Digital communications and error corrections  3) Microcomputer control and A/D, D/A converter  4) Logic circuit design  5) Circuit design using circuit simulator  6) Measurement of optical and electronic characteristics of photodiodes and solar cells  7) Induction motors  8) Pattern recognition  9) Digital Signal Processing |
| Textbooks, References,  and Supplementary Materials  [テキスト、参考書、その他] | Handouts and materials given on or before each theme. |
| Grading Philosophy  (Percentage / Criteria / Methodology)  [成績評価の方法] | Participation in the experimental work and reports |
| Other  (i.e. Expectations on Classroom  Conduct and Decorum etc.)  [その他] |  |