Lesson Plan

Name of the Faculty : DEVENDER SINGH

Discipline : Electronics & Comm. Engg. Semester : 5th

Subject : Trouble Shooting of Electronic Equipment Lesson Plan Duration : 15 weeks (from 22 March to 2nd July 2021)

Work Load (Lecture / Practical) per week (in hours) : Lecture-NIL, Practical-03

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| **Practical** | | |
| **Week** | **Practical days** | **Topics** |
| 1st | Group2 | Introduction about Syllabus and Topics to be discussed  1. Fundamental Trouble Shooting Procedures  i) Fault location |
| 2nd | Group2 | ii**) Fault finding aids**  Service manuals  Test and measuring instruments Special tools |
| 3rd | Group2 | Exp-1(a) Demonstration and practice of fault finding and repair of  :CRO |
| 4th | Group2 | Exp-1 (b)Demonstration and practice of fault finding and repair of: Function Generator |
| 5th | Group2 | Exp-1(c) Demonstration and practice of fault finding and repair of: Power Supplies |
| 6th | Group2 | Exp-1(d) Demonstration and practice of fault finding and repair of: Digital multimeter |
| 7th | Group2 | iii) Trouble Shooting Techniques  -Functional Areas Approach  -Split half method |
| 8th | Group2 | * Divergent, convergent and feedback path circuit analysis * Measurement techniques |
| 9th | Group2 | Exp-2 Demonstration, practice of fault finding and repair of any one equipment from group-I i.e. Communication |
| 10th | Group2 | Exp-3 Demonstration, practice of fault finding and repair of any one equipment from group-II i.e. Consumer |
| 11th | Group2 | Exp-4 Demonstration, practice of fault finding and repair of any one equipment from group-III i.e. Audio/Video systems |
| 12th | Group2 | Exp-5 Demonstration, practice of fault finding and repair of any  one equipment from group IV i.e. Computer |
| 13th | Group2 | Exp-6 Testing of Integrated Circuits(ICs) |
| 14th | Group2 | Exp-7 Use of digital tools for troubleshooting digital equipments |
| 15th |  | Viva |