

4205 – INSTRUMENTATION PROJECT- II									
Teaching Schedule Per Week			Progressive Assessment	Examination Schedule (Marks)					
Lectures	Practical	Credits		Theory			Practical Ex.		Total
-	6	6	50	-	-	-	50/or		100
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
4204		INC		-	-	-	50	50	100

Rationale: This course is a continuation of a course "INSTRUMENTATION PROJECT - I" where in the preliminaries of the project is already completed. This course includes actual execution of the project along with technical report of the same with necessary record of the results obtained.

COURSE CONTENTS

Hrs Mks.

1. EXECUTION OF THE PROJECT

Designing and making PCBs, Testing the components, soldering the components, testing the circuits, burning of EPROMs (if required), writing programmes (if required), fabrication of necessary hardware, mounting of PBCs and panel controls, obtaining the final results.

2. DESIGNING OF SIMPLE ELECTRONIC CIRCUITS

Like power supplies, oscillators and amplifiers, etc.

3. DESIGNING OF PANEL

For transmitters, controller, recorders, etc.

4. REPORT WRITING OF THE PROJECT

Rationale, introduction, principle of working, block diagram, circuit diagram, detailed explanation of circuit diagram, flow charts (if any), practical applications of the project, observation and interpretations, instruction manual (stating the procedure for user, safety precautions, etc.). Technical specifications, future developments, problems faced and their solutions obtained, list of the components, actual cost of the project, references made IC details/equivalents if any, PCB layouts.

