

Government Polytechnic, Mumbai
(Academically Autonomous Institute, Government of Maharashtra)
Programme : Diploma in Instrumentation Engineering (Sandwich Pattern)

Learning and Assessment Scheme (P-23)
Duration of Programme : 6 Semester
Semester : Sixth

With Effect From Academic Year : 2023-24
Duration : 16 WEEKS
Scheme : P-23

Sr. No.	Course Code	Course Title	Course Type	Total IKS Hrs. For Sem.	Learning Scheme					Credits	Paper Duration (Hrs.)	Assessment Scheme										Total Marks	
					Actual Contact Hrs./Week			Self-Learning (Term Work + Assignment s) Hrs./Week	Notional Learning Hrs./Week			Theory			Based on LL & TL				Based On Self-Learning				
					CL	TL	LL					SLH	NLH	FA-TH		SA-TH	Total		FA-PR		SA-		SLA
								T1	T2					Max	Max		Min	Max	Min	Max			Min
					Max	Max								PR	OR								
1	IP23401	Inplant Training	INP	--	--	--	40	--	40	20	--	--	--	--	--	200	80	--	200	80	--	--	400
				--	--	--	40	--	40	20	--	--	--	--	--	200	80	--	200	80	--	--	400

Abbreviations: CL-Classroom Learning, TL-Tutorial Learning, LL- Laboratory Learning, FA-Formative Assessment, SA-Summative Assessment, IKS-Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @\$ Internal Online Examination

Note:

1. FA-TH represents addition of two-20 marks class tests conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course, then the candidate shall be declared as "Detained" in that semester.
3. If candidate is not securing minimum passing marks in SLA of any course, then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+TL+LL+SL) hours X 16 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. *Self-learning hours shall not be reflected in the Time Table.

Course Category: Discipline Specific Core Course (DSC): 0, Discipline Specific Elective (DSE):0, Value Education Course (VEC):0, Intern. /Apprentice. /Project /Community (INP):1, Ability Enhancement Course (AEC): 0, Skill Enhancement Course (SEC): 0, Interdisciplinary Elective (IDE): 0

Department Coordinator,
Curriculum Development,
Dept. of Instrumentation Engineering

Head of Department,
Dept. of Instrumentation Engineering

In-Charge
Curriculum Development Cell

Principal,
Government Polytechnic Mumbai

Programme: Diploma in AI/CE/CO/EE/EC/IT/IS/ME/LT/LG/RT													
Course Code: IP23401						Course Title: Inplant Training							
Compulsory / Optional: Compulsory													
Learning Scheme and Credits						Assessment Scheme							
CL	TL	LL	SLH	NLH	Credits	FA-TH		SA-TH (2:30 Hrs.)	FA-PR	SA-		SLA	Total
						T1	T2			PR	OR		
--	--	40	--	40	20	--	--	--	200	--	200	--	400

Total IKS Hrs. for course: 00 Hrs.

Abbreviations: CL-Class Room Learning, TL-Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA-Formative Assessment, SA-Summative assessment, SLA-Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# Online Examination, @\$ Internal Online Examination

Note:

1. FA-PR represents tutorial/practical term work of 200 Marks.
2. SA-OR represents the end term Oral examination of 200 Marks

I. Rationale:

Inplant training bridges the gap between academic theory and real-world industry application, providing students with practical skills, industry exposure, and enhanced employability.

II. Industry / Employer Expected Outcome:

The aim of this course is to attain the following industry/ employer expected outcome through various teaching learning experiences:

" Acquiring fresh perspectives and potential future hires, developing a skilled talent pool to fill immediate needs, and improving productivity through the application of new ideas and solutions."

III. Course Outcome: Students will be able to achieve & demonstrate the following COs on completion of course based learning.

CO1	Apply engineering knowledge to industrial practices.
CO2	Operate tools, equipment, and software safely.
CO3	Work effectively in teams with good communication.
CO4	Identify and solve practical engineering problems.
CO5	Understand quality standards, ethics, and workplace culture

IV. Important Guidelines for Students:

- Students will be placed in different industries for in-plant training. Student has to complete minimum 20 weeks of training **or** 800 hours (considering 5 days/week x 8 hrs. per shift x 20 weeks) of training **or** number of weeks of training as per the norms of the respective industries.
- During In-plant training, student will be assigned to a polytechnic supervisor and industry supervisor. Polytechnic supervisor will visit the industry during training, guide the students, and resolve the issues of students if any. Industry supervisor will be the officer/shop in-charge/work manager etc., under whom student is working in industry daily.
- Student has to maintain in-plant training diary & in-plant training manual regularly.
- Student has to prepare the In-plant training report at the end of training under the supervision of polytechnic supervisor and industry supervisor.
- Student has to present their work in a seminar.
- TW will consist of updated and signed/certified copies of daily in-plant training diary, weekly diary/in-plant training manual, and In-plant training report.
- Participating/completing specific project, mini project, special assignment etc. and including it in in-plant training report will be an added advantage for the students.

V. Assessment Methodologies/Tools:

Type of Assessment	Formative Assessment		Summative Assessment		
Assessor	Institute mentor /guide	Industry Supervisor / guide	Institute mentor /guide	Industry Supervisor / guide	
Criteria	(On the basis of In-plant training diary & Manual)	(On the basis of Attendance & Performance at Industry)	Oral	Presentation /Seminar	Oral
Allotted Marks	100	100	50	100	50

VI. Suggested COs - POs Matrix Form:

Course Outcomes (COs)	Programme Outcomes (POs)							Programme Outcomes (POs)	
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools, Experimentation	PO-5 Engineering Practices For Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO - 1	PSO - 2
CO1	3	3	2	2	2	1	1	3	3
CO2	2	2	3	3	2	2	2	3	3
CO3	2	2	2	1	3	2	3	3	3
CO4	3	3	3	2	2	2	2	3	3
CO5	2	2	2	1	2	2	3	3	3

Legends: - High:03, Medium:02, Low:01, No Mapping: --

VII. Academic Consultation Committee/Industry Consultation Committee:

Sr. No.	Name	Designation	Institute/ Organization
1	Ms. Pritam A Khande	Lecturer in Electronic Engg.	Govt. Polytechnic, Mumbai
2	Mrs. Swati T. Shinde	Lecturer in Instrumentation Engg.	Govt. Polytechnic, Mumbai
3	Ms. Namrata Wankhade	Lecturer in Information Technology	Govt. Polytechnic, Mumbai
4	Dr. Mahesh S.Narkhede	Lecturer in Electrical Engg.	Govt. Polytechnic, Mumbai

Coordinator,
Curriculum Development,
Department of Instrumentation Engg.

Head of Department
Department of Instrumentation Engg.

Incharge,
Curriculum Development Cell
Government Polytechnic, Mumbai

Principal
Government Polytechnic, Mumbai