

**Autonomous Program Structure
Final Year B. Tech. Eighth Semester
(Instrumentation and Control)**

Academic Year: 2019-2020 Onwards

Course Code	Course Title	Teaching Scheme Hours /Week			Examination Scheme				Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Oral	Practical		
IN 4201	Process Data Analytics	3	0	0	50	50	0	0	100	3
PEIN 4201	Program Elective-I	3	0	0	50	50	0	0	100	3
OE 4201	Open Elective-II	3	0	0	50	50	0	0	100	3
IN 4202	Process Data Analytics Lab	0	0	2	0	0	50	0	50	1
IN 4203	Project Phase-II	0	2	16	100	0	50	0	150	10
IN 4204	Project based Online Course**	2	0	0	50	0	0	0	50	2
	Total	11	2	18	300	150	100	0	550	22
	Grand Total		31			550			550	22

****The student shall register and complete the project based online course preferably in semester- I but may complete the same till the end of semester-II.**

PEIN 4201: Program Elective-I	OE 4201: Open Elective-II
1. Process Modelling and Optimization	1. Instrumentation in Agriculture and Food Industry
2. Digital Control	2. Advanced Digital Signal and Image Processing
3. Building Automation	3. System On Chip
4. Power Plant and Safety Instrumentation	

DEAN ACADEMICS
MKSSS's Cummins College
of Engineering for Women
Karvenagar, Pune-411052

Principal
MKSSS's Cummins College of Engg.
For Women, Karvenagar, Pune-52

APPROVED BY
Governing Body Members
MKSSS's Cummins College
of Engineering for Women
Karvenagar, Pune-411052