

**Autonomous Program Structure of  
Final Year B. Tech. (Instrumentation and Control)  
Academic Year: 2019-2020**

Final Year B. Tech. (Instrumentation and Control) Semester – I										
Course Code	Course Title	Teaching Scheme Hours /Week			Examination Scheme				Marks	Credit
		Lecture	Tutorial	Practical	In Semester	End Semester	Oral	Practical		
IN 4101	Process Instrumentation and Control	3	0	0	50	50	0	0	100	3
IN 4102	Industrial Automation	3	0	0	50	50	0	0	100	3
HS 4101	Management Information system	3	0	0	50	50	0	0	100	3
OE 4101	Open Elective –I	3	0	0	50	50	0	0	100	3
IN 4103	Industrial Automation Lab	0	0	2	0	0	50	0	50	1
IN 4104	Project Phase-I	0	2	14	100	0	50	0	150	9
	<b>Total</b>	<b>12</b>	<b>2</b>	<b>16</b>	<b>300</b>	<b>200</b>	<b>100</b>	<b>0</b>	<b>600</b>	<b>22</b>
	<b>Grand Total</b>	<b>30</b>			<b>600</b>				<b>600</b>	<b>22</b>

**OE4101: Open Elective-I**

- A. System Engg & Management
- B. Bio-Informatics
- C. Avionics



**\*List of HS –Courses( Mandatory) Course Code: 4101**

1. E & TC : Mangement for Engineers
2. Comp : Organizational Behavior
3. Instru : Management Information systems
4. IT : Green Computing
5. Mech : Economics for Engineers
6. Advanced Entrepreneurship Development\*\*

\*\*Prerequisite: Basic Course ED

**DEAN ACADEMICS**  
MKSS's Cummins College  
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Karvenagar, Pune-411052

**Principal**  
MKSS's Cummins College of Engg.  
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**APPROVED BY**  
Governing Body Members  
MKSS's Cummins College  
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