



SHREEYASH PRATISITHAN'S
SHREEYASH COLLEGE OF ENGINEERING & TECHNOLOGY
SataraParisar, Beed By-Pass Road, Aurangabad -431010 (M.S.)
DEPARTMENT OF MECHANICAL ENGINEERING



Academic Year 2020-21 (Autumn Semester)

Course Code- BTMEC701

Name of Course- Mechatronics


Class- BE (VII Sem)

Course Owner- Dr. H. A. Tonday


Academic Year - [2020-21]

On completion of the course, students will be able to:

CO701.1	Define sensor, transducer and understand the applications of different sensors and transducers
CO701.2	Explain the signal conditioning and data representation techniques
CO701.3	Design pneumatic and hydraulic circuits for a given application
CO701.4	Write a PLC program using Ladder logic for a given application
CO701.5	Understand applications of microprocessor and micro controller
CO701.6	Analyse PI, PD and PID controllers for a given application

for 
Subject Teacher




HOD



Principal
Principal
Shreeyash College of Engineering
& Technology Aurangabad



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Course Outcomes	Program Outcome (As per University Syllabus)												Program Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO701.1	1	1	1	3	2				2	1		1			
CO701.2	3	2			3	3	2				1	3			
CO701.3	1	1		3	3	2	1		3		1	3			
CO701.4	3	3	1	1	3		1	1	1						
CO701.5	3			1	3	2	3					2			
CO701.6		3	3		3	3	1	1	3			2			
Avg of CO	2.2	2	1.67	2	2.83	2.5	1.6	1	2.25	1	1	2.2			
PO Attainment	✓	✓	✓	✓	✓	✓									


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60	JADHAO TUSHAR SANJAY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	3
61	ANDHALE BALKRISHNA BHARAT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	3
62	SHAIKH IMRAN VAJIR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	3
63	MITKAR AJINKYA BHAGWAN	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	3
64	PANDAV TEJAS GANESHRAO	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	1
65	MORE SACHIN HARIBHAU	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	1

	CO Attainment Level		
	3	2	1
Total No. of Students	65		
Total Marks	20 Marks		
Set Target %	% & Above	60% to 69%	40% to 59%
Obtained Marks	14 & above	12 & 13	10 & 11

CO Attainment Level	
3	High Correlation
2	Medium Correlation
1	Low Correlation

	CO1, CO2, CO4 Attainment
Number of Students Attained	65
Number of Students attained 70% and Above	56
Number of Students attained 60% to 69%	6
Number of Students attained 40% to 59%	3

Percentage of Students Attained COs at Level 3	86.15%
Percentage of Students Attained COs at Level 2	9.23%
Percentage of Students Attained COs at Level 1	4.61%

[Signature]
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Internal Assessment

Sr. No.	CO No.	CO1, CO2	CO5, CO6	CO1, CO2, CO5 & CO6	CO1, CO2, CO5 & CO6
	Name of Students	Internal Assessment 1(10 Marks)	Internal Assessment 2(10 Marks)	Total of IA1 & IA2	Course Attainment Level of Student
1	NARKE ABHIJIT VISHNU	7	7	14	3
2	AKOLKAR CHANDRASHEKHAR SANJAY	6	6	12	2
3	LEKURWALE PRATIK LAXMIKANT	10	9	19	3
4	GAVHAD MAULI DEELIP	10	9	19	3
5	BHOJANE ROHAN PRABHU	10	9	19	3
6	PADAM PALLAVI RAJENDRA	10	10	20	3
7	BHATANE MAHESH TUKARAM	10	8	18	3
8	CHATSE ATUL PARMESHWAR	10	7	17	3
9	POLE NEELKANTH VILASRAO	9	8	17	3
10	GHAYWAT NILESH JANARDHAN	9	8	17	3
11	DHAGE KRISHNA LAXMANRAO	9	9	18	3
12	SALUNKE OMKAR NIVRUTTI	9	8	17	3
13	RATHOD	9	9	18	3
14	JADHAV DATTA VASANT	6	6	12	2
15	BEDWAL KIRAN RATANSING	7	7	14	3
16	JOGDAND SUDHIR SAMPAT	6	7	13	2
17	NAWANDAR PANKAJKUMAR PRASHANTKU	10	9	19	3
18	MATE OMKAR DIGAMBAR	9	8	17	3
19	GORADE RAMKRUSHNA BHAGWAN	9	8	17	3
20	CHIPATE UTKARSH ANIL	10	8	18	3
21	TANDALE HARISH RAJU	10	10	20	3
22	QURESHI ALIM KHALIL	10	9	19	3
23	SURYAWANSHI ADITYASINGH DIPAKSINGH	10	10	20	3
24	RAUT DIPALI SUBHASH	10	10	20	3
25	BHARNE PRATIK GUNWANT	10	8	18	3
26	ASHISH BHAGWAN RAKDE	10	9	19	3
27	PANIGRAHI SHUBHAM SUDARSHAN	9	8	17	3
28	UKANDE RAJESH VAMAN	10	8	18	3
29	MOKASARE MANGESH KRUSHNA	9	8	17	3
30	KOLHE PRATHMESH DNYANOBA	10	9	19	3
31	MORWAL ANUJA ISHWAR	10	9	19	3
32	POONAM DASRAO KATORE	10	10	20	3
33	SAWARKAR SNEHA TEKCHAND	8	8	16	3





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34	PRASAD VIKAS SHYAM	10	10	20	3
35	WAGH SAGAR SANJAY	10	9	19	3
36	BONGANE SUNIL GANESH	8	6	14	3
37	SANGOLKAR AKSHAYKUMAR MAROTRAO	7	6	13	2
38	GITE PAVAN BABASAHEB	6	7	13	2
39	AHERKAR ARUN VISHNU	9	8	17	3
40	JAISWAL YASH AJAY	10	9	19	3
41	SONALEE HARIBHAU UJED	10	9	19	3
42	DANDE AKASH SANDEEP	10	9	19	3
43	SONAWANE ASHISH HARISH	10	8	18	3
44	SHINDE SHUBHAM SUBHASHRAO	9	8	17	3
45	SHAIKH IMRAN ASLAM SHAIKH	10	9	19	3
46	GAIKWAD ANIKET VITTHAL	10	9	19	3
47	BIRADAR ABHIJEET BASWARAJ	10	9	19	3
48	MANDALE DIPAK BALAJI	10	10	20	3
49	KSHIRSAGAR ADINATH DASHRATH	10	9	19	3
50	WANKHEDE GANESH UTTAMRAO	9	9	18	3
51	PILLAI SRIJITH SREEKUMAR	10	10	20	3
52	PHALKE MANOJ KRUSHNA	10	9	19	3
53	SHAIKH SATTAR SHAIKH RASHID	10	8	18	3
54	SURWASE SAHADEV PREMNATH	10	10	20	3
55	ZAKADE NITIN RAMLING	10	10	20	3
56	MALKALPATTE KRISHNA DHONDIRAM	10	8	18	3
57	PAGARE VIVEK MADHUKAR	10	10	20	3
58	RATHOD AKASH DEVIDAS	10	10	20	3
59	WAKLE NITIN TRYMBAK	10	9	19	3
60	JADHAO TUSHAR SANJAY	10	9	19	3
61	ANDHALE BALKRISHNA BHARAT	8	8	16	3
62	SHAIKH IMRAN VAJIR	10	9	19	3
63	MITKAR AJINKYA BHAGWAN	7	7	14	3
64	PANDAV TEJAS GANESHRAO	7	8	15	3
65	MORE SACHIN HARIBHAU	7	6	13	2





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	CO1 & CO2 Attainment Level for IA 1		
	3	2	1
Total No. of Students	65		
Total Marks	10 Marks		
Set Target %	70%	60%	40% to 59%
Obtained Marks	7	6	4 & 5


		CO1, CO2 Attainment
Number of Students Attained	65	
Number of Students attained 70% and Above	61	3
Number of Students attained 60%	4	2
Number of Students attained 40% to 50%	0	1

Percentage of Students Attained COs at Level 3	93.84%
Percentage of Students Attained COs at Level 2	6.15%
Percentage of Students Attained COs at Level 1	0.00%

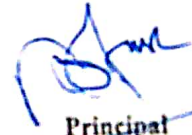
	CO5 & CO6 Attainment Level for IA 2		
	3	2	1
Total No. of Students	65		
Total Marks	10 Marks		
Set Target %	70%	60%	40% to 59%
Obtained Marks	7	6	4 & 5

		CO5, CO6 Attainment
Number of Students Attained	65	
Number of Students attained 70% and Above	60	3
Number of Students attained 60%	5	2
Number of Students attained 40% to 60%	0	1

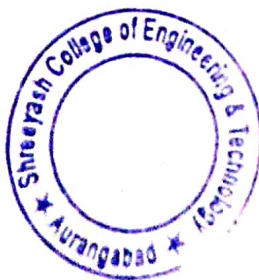
Percentage of Students Attained COs at Level 3	92.30%
Percentage of Students Attained COs at Level 2	7.69%
Percentage of Students Attained COs at Level 1	0.00%


Subject Teacher


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End Semester Examination

Sr. No.	CO No	CO1, CO2, CO3, CO4, CO5, CO6	CO1, CO2, CO3, CO4, CO5, CO6
	Student's Name		
1	NARKE ABHIJIT VISHNU	Marks Score by the student out of 60	Course Attainment Level of Student
2	AKOLKAR CHANDRASHEKHAR SANJAY	60	3
3	LEKURWALE PRATIK LAXMIKANT	60	3
4	GAVHAD MAULI DEELIP	60	3
5	BHOJANE ROHAN PRABHU	60	3
6	PADAM PALLAVI RAJENDRA	60	3
7	BHATANE MAHESH TUKARAM	60	3
8	CHATSE ATUL PARMESHWAR	60	3
9	POLE NEELKANTH VILASRAO	60	3
10	GHAYWAT NILESH JANARDHAN	60	3
11	DHAGE KRISHINA LAXMANRAO	60	3
12	SALUNKE OMKAR NIVRUTTI	60	3
13	AKASH. S. RATHOD	60	3
14	JADHAV DATTA VASANT	60	3
15	BEDWAL KIRAN RATANSING	60	3
16	JOGDAND SUDHIR SAMPAT	60	3
17	NAWANDAR PANKAJKUMAR PRASHANTKUMAR	60	3
18	MATE OMKAR DIGAMBAR	60	3
19	GORADE RAMKRUSHNA BHAGWAN	60	3
20	CHIPATE UTKARSH ANIL	60	3
21	TANDALE HARISH RAJU	60	3
22	QURESHI ALIM KHALIL	60	3
23	SURYAWANSHI ADITYASINGH DIPAKSINGH	60	3
24	RAUT DIPALI SUBHASH	60	3
25	BHARNE PRATIK GUNWANT	60	3
26	ASHISH BHAGWAN RAKDE	60	3
27	PANIGRAHI SHUBHAM SUDARSHAN	54	3
28	UKANDE RAJESH VAMAN	60	3
29	MOKASARE MANGESH KRUSHNA	60	3
30	KOLHE PRATHMESH DNYANOBA	60	3
31	MORWAL ANUJA ISHWAR	60	3
32	POONAM DASRAO KATORE	60	3
33	SAWARKAR SNEHA TEKCHAND	60	3
34	PRASAD VIKAS SHYAM	60	3
35	WAGH SAGAR SANJAY	60	3
36	BONGANE SUNIL GANESH	26	1
37	SANGOLKAR AKSHAYKUMAR MAROTRAO	60	3
38	GITE PAVAN BABASAHEB	60	3
39	AHERKAR ARUN VISHNU	60	3
40	JAIWAL YASH AJAY	60	3
41	SONALEE HARIBHAU UJED	60	3
42	DANDE AKASH SANDEEP	60	3





End Semester Examination

Sr. No.	CO No Student's Name	CO1, CO2, CO3, CO4, CO5, CO6	CO1, CO2, CO3, CO4, CO5, CO6
		Marks Score by the student out of 60	Course Attainment Level of Student
43	SONAWANE ASHISH HARISH	60	3
44	SHINDE SHUBHAM SUBHASIRAO	60	3
45	SHAIKH IMRAN ASLAM SHAIKH	60	3
46	GAIKWAD ANIKET VIJITHAL	60	3
47	BIRADAR ABHIJEET DASWARAJ	60	3
48	MANDALE DIPAK BALAJI	60	3
49	KSHRSAGAR ADINATH DASHIRATHI	60	3
50	WANKHEDE GANESH UTTAMRAO	60	3
51	PILLAI SRUITH SREEKUMAR	60	3
52	PHALKE MANOJ KRUSHNA	60	3
53	SHAIKH SATTAR SHAIKH RASHID	60	3
54	SURWASE SAHADEV PREMNATH	60	3
55	ZAKADE NITIN RAMLING	60	3
56	MALKALPATTI KRISHNA DHONDIRAM	60	3
57	PAGARE VIVEK MADHUKAR	60	3
58	RATHOD AKASH DEVIDAS	60	3
59	WAKLE NITIN TRYIMBAK	60	3
60	JADHAO TUSHAR SANJAY	60	3
61	ANDHALE BALKRISHNA BHARAT	60	3
62	SHAIKH IMRAN VAJIR	60	3
63	MITKAR AJINKYA BHAGWAN	60	3
64	PANDAV TEJAS GANESHRAO	60	3
65	MORE SACHIN HARIBHAU	32	1

	CO Attainment Level		
	3	2	1
Total No. of Students	65		
Total Marks	60 Marks		
Set Target %	70% & Above	60% to 69%	40% to 59%
Obtained Marks	42 & above	36 to 41	24 to 35

CO Attainment Level	
3	High Correlation
2	Medium Correlation
1	Low Correlation

	CO1, CO2, CO3, CO4, CO5, CO6 Attainment Level
Number of Students Attained	65
Number of Students attained 70% and above	3
Number of Students attained 60% to 69%	2
Number of Students attained 40% to 59%	1

Percentage of Students Attained COs at Level 3	96.92%
Percentage of Students Attained COs at Level 2	0.00%
Percentage of Students Attained COs at Level 1	3.08%

Subject Teacher



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