



Subject-Heat & Mass Transfer 302042 Assessment Sheet												
PRN.	Name of The Student.	Practical No. 1	Practical No. 2	Practical No. 3	Practical No. 4	Practical No. 5	Practical No. 6	Practical No. 7	Practical No. 8	Marks out of 80	Marks out of 25	
72165752E	Abhishek kumar yadav	9	9	8	8	9	8	8	9	68	21	
72165771M	Ajay mohan gawade	9	9	7	7	9	7	7	9	64	20	
71826107M	AJINKYA BALIBA KADAM	8	7	8	7	7	8	7	7	59	21	
72165777L	Akash Dadaso Jadhav	8	8	7	8	8	7	8	8	62	20	
72165767C	Akash Sampat Deshmukh	9	9	8	7	9	8	7	9	66	21	
72029374L	Akshay Ramling Mane	8	9	8	8	9	8	8	9	67	21	
72165802E	Aniket dattatray sase	9	7	8	7	7	8	7	7	60	20	
72165754M	Aniket Shivaji sapnar	7	7	8	7	7	8	7	7	58	20	
72165755K	Ankit Gupta	7	8	8	7	8	8	7	8	61	20	
72165763L	Anup H Chaudhari	8	8	8	8	8	8	8	8	64	21	
72165756H	Aoudut Pravin Ravsaheb	8	8	8	8	8	8	8	8	64	20	
72165768M	Arjun yashwant dinde	9	7	7	7	7	7	7	7	58	20	
7216582B	Ashutosh Toundkar	9	7	7	7	7	7	7	7	58	20	
72165758D	Ashwini chavhan	7	7	8	7	7	8	7	7	58	20	
72165759B	Atish shankar Awaghade	8	9	7	7	9	7	7	9	63	21	
71913982B	Avinash Harishchandra Satale	8	9	7	8	9	7	8	9	65	22	
72165760F	Bharat Barku Borye	7	9	7	8	9	7	8	9	64	21	
71640636F	Dhananjay Shrikrushna Ugwekar	8	8	8	8	8	8	8	8	64	21	
72165773H	Dilip Ghure	8	8	7	8	8	7	8	8	62	20	
72165769K	Dixit Prashant Manikrao	8	9	8	7	9	8	7	9	65	23	
Prof. Sagar Upendra Deshpande										Dr. P. A. Makasare		
Subject Incharge										H O D		

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<b>Siddhant College of Engineering, Sudumbare, Pune.</b>	
Approved By AICTE New Delhi, DTE (MS) and Affiliated to Pune University (11-No.)	
<b>COURSE FILE</b>	
<b>DEPARTMENT: MECHANICAL ENGINEERING</b>	
<b>Academic Year and Semester :-</b>	<b>2021-22 SEM 1</b>
<b>Title of The Course:</b>	<b>Heat &amp; Mass Transfer</b>
<b>Course Code:</b>	<b>302040</b>
<b>Name of The Course Coordinator :-</b>	<b>Deshpande S. U.</b>

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Ready Title Page Index Course Details with CO's PEO's, PO, PSO's CO-PO Mapping Assignment unit test Practical SPPU Exam Course Exit ...

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INDEX	
Heat & Mass Transfer	
Sr. No.	Description
1	Details of Course
2	Department PEOs, PSOs, POs
3	CO-PO Mapping
4	CO Attainment
5	PO Attainment
6	Continuous Improvement
7	Assignment
8	Practical
9	SPPU Result (Insem/Endsem)
10	Course Exit Survey

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A23 Needs Identified by Alumni

Heat & Mass Transfer							
Scheme							
Lectures	Tutorials	Prcticals	Theory Marks	TermWork	Practical	Oral	Total
3	-	2	100	-	50	-	150
<b>Course Code:</b>		<b>302040 Mandatory field to generate CO ID</b>					
Course Outcomes: Describe what student should demonstrate upon the completion of a course.				Learning Level		Mapping with PO's	
302040.1	ANALYZE & APPLY the modes of heat transfer equations for one dimensional thermal system.			Knowledge, Analysis		1,2,3,12	
302040.2	DESIGN a thermal system considering fins, thermal insulation and & Transient heat conduction.			Knowledge, Analysis		1,2,3,12	
302040.3	EVALUATE the heat transfer rate in natural and forced convection & validate with experimentation results.			Knowledge, Analysis		1,2,3,12	
302040.4	INTERPRET heat transfer by radiation between objects with simple geometries, for black and grey surfaces.			Knowledge, Analysis and Design		1,2,3,12	
302040.5	ABILITY to analyze the rate of mass transfer using Fick's Law of Diffusion and understands mass diffusion in different coordinate systems.			Knowledge, Analysis		1,2,3,12	
302040.6	DESIGN & ANALYSIS of heat transfer equipments and investigation of its performance.			Knowledge, Analysis and		1,2,3,12	

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Title Page Index **Course Details with CO's** PEO'S, PO, PSO'S CO-PO Mapping Assignment unit test Practical SPPU Exam Course Exit ...

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General

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CO\PO	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
302040.1	3	3										3			
302040.2	3	3	3									3			
302040.3	3											3			
302040.4	3	3	3									3			
302040.5	3	3										3			
302040.6	3	3	3									3			
<b>CO mapping</b>	3	3	3									3			
<b>CO SUM</b>	18	15	9									18			
	3 Substantial (High/Strong)														
	2 Moderate (Medium)														
	1 Slight (Low/Poor)														
<b>Justification of CO-PO Mapping</b>															
P01	Applied knowledge of engineering and maths														
P02	Analysed complex engineering problems														
P03	Designed solution for complex engineering problems														

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Assignment Marks																			
Heat & Mass Transfer																			
Roll No.	Exam Seat No.	Name of Student	Assign ment	Assign ment	Assign ment														
19	16	71913982B	Avinash Harishchandra Satale	4.0	6.0	7.0													
20	17	72165760F	Bharat Barku Borye	4.0	3.0	6.0													
21	18	71640636F	Dhananjay Shrikrushna Ugwekar	5.0	7.0	7.0													
22	19	72165773H	Dilip Ghure	3.0	5.0	6.0													
23	20	72165769K	Dixit Prashant Manikrao	5.0	7.0	7.0													
24	21	72165753C	Gade Adesh Balasaheb	7.0	8.0	8.0													
25	22	72165783E	Ganesh Tulshidas Kumbhar	5.0	7.0	8.0													
26	23	72165772K	Ghare sagar vitthal	5.0	6.0	8.0													
27	24	72165791F	Jitendra Vasant Patil	6.0	7.0	8.0													
28	25	72165775D	Krishna Gupta	0.0	0.0	0.0													
29	26	72165770G	Kundan Kishor Gaikwad	6.0	8.0	8.0													
30	27	72165765G	kusumkar deepak pradip	0.0	0.0	0.0													
31	28	72165784C	Madhav Tulshidas Kumbhar	5.0	7.0	8.0													
32	29	72165785M	Mane Trupti Jitendra	5.0	8.0	7.0													
33	30	72029376G	Manish Umesh Mourya	7.0	6.0	7.0													
34	31	72165781J	Mansi Kokane	6.0	5.0	7.0													
35	32	72165779G	Mayur Popat Jarhad	0.0	0.0	0.0													

Ready | Title Page | Index | Course Details with CO's | PEO's, PO, PSO'S | CC-PO Mapping | **Assignment** | unit test | Practical | SPPU Exam | Course Exit ... | 100%

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Are you able to understand working of thermocouple and RTD

Sr. No.	Exam Seat No.	Name of Student	Are you able to understand working of thermocouple and RTD	Are you able to write flowchart of bottle filling plant, understand working of solenoid valve, pneumatic cylinder, microcontroller	Have you understood application of data acquisition system, PLC working, sensor working	Are you able to write a rung for and, or, nand, nor, xor, xnor gates.	Have you understood downloading of ladder diagram program into PLC, running of program, output of program	Have you understood to Proportional, integral, derivative control, combination of PID
1	72165752E	Abhishek kumar Yadav	Good	Excellent	Excellent	Good	Excellent	Excellent
2	72165771M	Ajay mohan gawade	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
3	71826107M	AJINKYA BALIBA KADAM	Excellent	Good	Good	Good	Good	Good
4	72165777L	Akash Dadaso [adhav	Excellent	Excellent	Good	Excellent	Good	Good
5	72165767C	Akash Sampat Deshmukh	Good	Good	Good	Good	Average	Average
6	72029374L	Akshay Ramling Mane	Excellent	Excellent	Excellent	Good	Good	Good
7	72165802E	Aniket dattatray sase	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
8	72165754M	Aniket Shivaji sapnar	Excellent	Good	Excellent	Average	Excellent	Excellent
9	72165755K	Ankit Gupta	Excellent	Good	Excellent	Excellent	Good	Good
10	72165763L	Anup H Chaudhari	Excellent	Good	Excellent	Good	Good	Good
11	72165756H	Aoudut Pravin Ravsaheb	Excellent	Average	Excellent	Excellent	Excellent	Excellent
12	72165768M	Arjun yashwant dinde	Excellent	Excellent	Excellent	Good	Good	Good
13	7216582B	Ashutosh Toundkar	Average	Good	Excellent	Excellent	Excellent	Excellent
14	72165758D	Ashwini chavhan	Good	Good	Good	Excellent	Average	Excellent

PEO'S, PO, PSO'S CO-PO Mapping Assignment unit test Practical SPPU Exam Course Exit Survey form CES analysis CO Attainment

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Sr. No.	Exam Seat No.	Name of Student	Are you able to understand working of thermocouple and RTD	Are you able to write flowchart of bottle filling plant, understand working of solenoid valve, pneumatic cylinder, microcontroller	Have you understood application of data acquisition system, PLC working, sensor working	Are you able to write a rung for and, or, nand, nor, xor, nor gates.	Have you understood downloading of ladder diagram program into PLC, running of program, output of program	Have you understood to Proportional, integral, derivative control, combination of PID
1	72165752E	Abhishek kumar Yadav	Good	Excellent	Excellent	Good	Excellent	Excellent
2	72165771M	Ajay mohan gawade	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
3	71826107M	AJINKYA BALIBA KADAM	Excellent	Good	Good	Good	Good	Good
4	72165777L	Akash Dadaso Jadhav	Excellent	Excellent	Good	Excellent	Good	Good
5	72165767C	Akash Sampat Deshmukh	Good	Good	Good	Good	Average	Average
6	72029374L	Akshay Ramling Mane	Excellent	Excellent	Excellent	Good	Good	Good
7	72165802E	Aniket dattatray sase	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
8	72165754M	Aniket Shivaji sapnar	Excellent	Good	Excellent	Average	Excellent	Excellent
9	72165755K	Ankit Gupta	Excellent	Good	Excellent	Excellent	Good	Good
10	72165763L	Anup H Chaudhari	Excellent	Good	Excellent	Good	Good	Good
11	72165756H	Aoudut Pravin Ravsaheb	Excellent	Average	Excellent	Excellent	Excellent	Excellent
12	72165768M	Arjun yashwant dinde	Excellent	Excellent	Excellent	Good	Good	Good
13	7216582B	Ashutosh Toundkar	Average	Good	Excellent	Excellent	Excellent	Excellent
14	72165758D	Ashwini chavhan	Good	Good	Good	Excellent	Average	Excellent

PEO'S, PO, PSO'S CO-PO Mapping Assignment unit test Practical SPPU Exam Course Exit Survey form CES analysis CO Attainment

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PO & PSO Attainment																
Heat & Mass Transfer																
PO Attainment																
CO\PO	CO Attainment	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
CO1	2.51	7.53	7.53										7.53			
CO2	2.51	7.53	7.53	7.5									7.53			
CO3	2.51	7.53											7.53			
CO4	2.405	7.215	7.22	7.2									7.22			
CO5	2.195	6.585	6.59										6.59			
CO6	2.195	6.585	6.59	6.6									6.59			
CO Sum		18	15	9									18			
PO Sum		42.98	35.4	21									43			
Overall Direct PO Attainment		2.388	2.36	2.4									2.39			

$$PO_i = \frac{\sum_{j=1}^n CO_j W_j}{\sum_{j=1}^n W_j}$$

