COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: Chemical Technology-II

COURSE CODE: CT18503

CREDITS: 4

DEPARTMENT: Chemical Technology

PROGRAMME OUTCOMES(B.Sc.)Or POs:

- **PO1. Scientific Knowledge.** Apply the knowledge of Science, Mathematics, Engineering& Technology fundamentals to solve the complex problems**.**
- **PO2**.**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO3.Problem analysis:** Identify, formulate, research literature, and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO4.Modern tool usage:** Create, select, and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

- **PO5. Environment and sustainability:** Understand the impact of professional science and technological solutions in societal and environmental contexts and for sustainable development.
- **PO6.Individual and teamwork:** Function objectively as an individual and as a member in diverse teams.
- **PO7. Communication:** Communicate effectively on complex science & technology activities with society at large and able to write effective reports and documentation.
- **PO8. Life-long learning:** Recognize the need and ability to engage in independent and lifelong learning in the context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

- **PSO1.** Understand the basic concepts of Mathematics, Physics and Chemistry to apply in the field of Chemical Technology.
- **PSO2.**Understand the basic concepts of various unit operations and unit processes in Chemical Technology
- **PSO3.** Apply the theoretical knowledge, problem solving techniques and skills acquired through practicals in Chemical and Pharmaceutical industries.
- **PSO4.** Design the equipment required to carry out the various unit operations and unit processes in Chemical and Pharmaceutical industries.
- **PSO5.**Demonstrate and develop the appropriate solutions of the complex level of Chemical engineering design-based problems to meet the specified needs and overall sustainability of the processes, considering the necessary approaches of safety, health hazards, societal and environmental factors.

	COURSE OUTCOMES	**BLOOM'S TAXONOMY LEVEL**

CO1	Explain Nuclear materials	Understand
CO2	Explain natural product industries, soaps, and detergents	Understand
CO3	Describe microware, biotechnology, isolation, cultivation, and growth of micro-organisms	Understand
CO4	Explain pulp and paper industry	Understand
CO5	Explain food industry	Understand

TABLE 1: CO, PO, PSO MAPPING

DEPARTMENT: Chemical Technology

SUBJECT: Chemical Technology-II

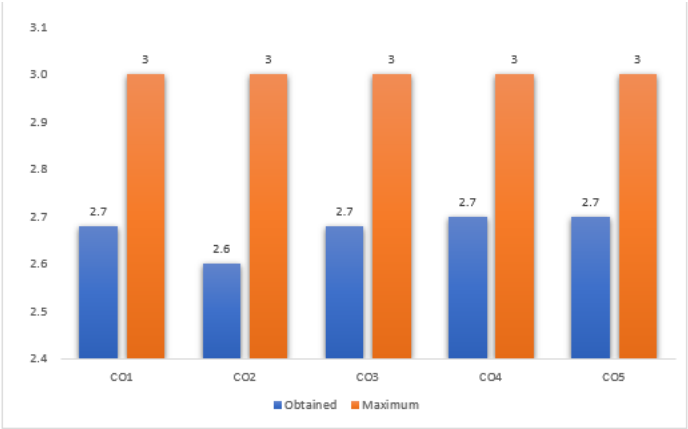
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H	H	H	S	S	S	S	S	H	S	S	H
C02	H	H	H	H	H	H	H	S	H	H	H	H
C03	H	H	H	H	H	H	H	S	H	H	H	H
C04	H	H	H	H	S	H	H	S	H	H	H	S
C05	H	H	H	H	S	H	S	H	H	H	H	H

H: Highly Supportive
S: Supportive

Table 2: COURSE OUTCOME ATTAINMENT

ATTAINMENT SCALE:

Pass percent of 85% and above= 3
Pass percent between 75% - 85%= 2
Pass percent between 75%- 65%= 1
Pass percent of less than 65%= 0



co	WEEKLY TEST		MID SEM		PREFINAL		ASSIGNMENT		VIVA-VOCE		ATTENDENCE			External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	75.6	2.0			92.7	3.0	87.8	3.0	92.7	3.0	34.1	0.0	2.2	90.2	3.0	3.0	2.7
CO2	75.6	2.0			92.7	3.0			92.7	3.0	34.1	0.0	2.0	90.2	3.0	3.0	2.6
CO3	75.6	2.0	100.0	3.0	92.7	3.0			92.7	3.0	34.1	0.0	2.2	90.2	3.0	3.0	2.7
CO4			100.0	3.0	92.7	3.0			92.7	3.0	34.1	0.0	2.3	90.2	3.0	3.0	2.7
CO5			100.0	3.0	92.7	3.0			92.7	3.0	34.1	0.0	2.3	90.2	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.672

Table 3: PROGRAMME OUTCOME MAPPING

OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.68	H 2.68	H 2.68					
CO2	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	
CO3	H 2.68	H 2.68	H 2.68	H 2.68	H 2.68	H 2.68	H 2.68	
CO4	H 2.7	H 2.7	H 2.7	H 2.7		H 2.7	H 2.7	
CO5	H 2.7	H 2.7	H 2.7	H 2.7		H 2.7		H 2.7
AVERAGE OF COS FOR POS	2.672	2.672	2.672	2.67	2.64	2.67	2.66	2.7
AVERAGE OF POS	2.6704	2.6704	2.6704	2.67	2.64	2.67	2.66	2.7
AVERAGE	2.6689							

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: Instrumentation and Process Control

COURSE CODE: CT18405

CREDITS: 4

DEPARTMENT: Chemical Technology

PROGRAMME OUTCOMES(B.Sc.)Or POs:

- **PO1. Scientific Knowledge.** Apply the knowledge of Science, Mathematics, Engineering& Technology fundamentals to solve the complex problems**.**
- **PO2**.**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO3.Problem analysis:** Identify, formulate, research literature, and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO4.Modern tool usage:** Create, select, and apply appropriate techniques, resources, modern technology and IT tools to complex science and technological activities.

- **PO5. Environment and sustainability:** Understand the impact of professional science and technological solutions in societal and environmental contexts and for sustainable development.
- **PO6.Individual and teamwork:** Function objectively as an individual and as a member in diverse teams.
- **PO7. Communication:** Communicate effectively on complex science & technology activities with society at large and able to write effective reports and documentation.
- **PO8. Life-long learning:** Recognize the need and ability to engage in independent and lifelong learning in the context of technological change.

PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

- **PSO1.** Understand the basic concepts of Mathematics, Physics and Chemistry to apply in the field of Chemical Technology.
- **PSO2.**Understand the basic concepts of various unit operations and unit processes in Chemical Technology
- **PSO3.** Apply the theoretical knowledge, problem solving techniques and skills acquired through practicals in Chemical and Pharmaceutical industries.
- **PSO4.** Design the equipment required to carry out the various unit operations and unit processes in Chemical and Pharmaceutical industries.
- **PSO5.**Demonstrate and develop the appropriate solutions of the complex level of Chemical engineering design-based problems to meet the specified needs and overall sustainability of the processes, considering the necessary approaches of safety, health hazards, societal and environmental factors.

	COURSE OUTCOMES	**BLOOM'S TAXONOMY LEVEL**

CO1	Explain the qualities of measurement and Choose a suitable thermometer for a given application	Understand
CO2	Describe the methods for composition analysis of moisture in gases	Analyze
CO3	Explain various pressure and vacuum measurement instruments and process instrumentation	Analyze
CO4	Describe the role of process dynamics and control	Apply
CO5	Describe controllers and final controller elements	Apply

TABLE 1: CO, PO, PSO MAPPING

DEPARTMENT: Chemical Technology

SUBJECT: Instrumentation and Process Control

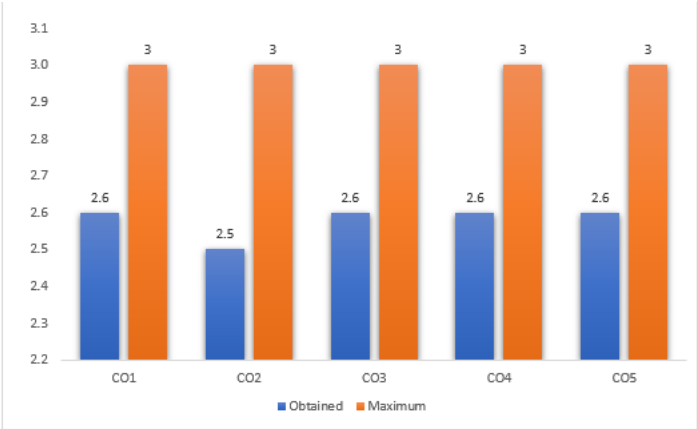
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H	H	H	S	S	S	S	S	H	S	S	H
C02	H	H	H	H	H	H	H	S	H	H	H	H
C03	H	H	H	H	H	H	H	S	H	H	H	H
C04	H	H	H	H	S	H	H	S	H	H	H	S
C05	H	H	H	H	S	H	S	H	H	H	H	H

H: Highly Supportive
S: Supportive

Table 2: COURSE OUTCOME ATTAINMENT

ATTAINMENT SCALE:

Pass percent of 85% and above= 3
Pass percent between 75% - 85%= 2
Pass percent between 75%- 65%= 1
Pass percent of less than 65%= 0



co	WEEKLY TEST		MID SEM		PREFINAL		ASSIGNMENT		VIVA-VOCE		ATTENDENCE			External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	79.5	2.0			94.9	3.0	94.9	3.0	82.1	2.0	41.0	0.0	2.0	89.7	3.0	3.0	2.6
CO2	79.5	2.0			94.9	3.0			82.1	2.0	41.0	0.0	1.8	89.7	3.0	3.0	2.5
CO3	79.5	2.0	94.9	3.0	94.9	3.0			82.1	2.0	41.0	0.0	2.0	89.7	3.0	3.0	2.6
CO4			94.9	3.0	94.9	3.0			82.1	2.0	41.0	0.0	2.0	89.7	3.0	3.0	2.6
CO5			94.9	3.0	94.9	3.0			82.1	2.0	41.0	0.0	2.0	89.7	3.0	3.0	2.6

AVERAGE	AVERAGE
3	2.58

Table 3: PROGRAMME OUTCOME MAPPING

OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.6	H 2.6	H 2.6					
CO2	H 2.5	H 2.5	H 2.5	H 2.5	H 2.5	H 2.5	H 2.5	
CO3	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	
CO4	H 2.6	H 2.6	H 2.6	H 2.6		H 2.6	H 2.6	
CO5	H 2.6	H 2.6	H 2.6	H 2.6		H 2.6		H 2.6
AVERAGE OF COS FOR POS	2.58	2.58	2.58	2.575	2.55	2.575	2.566666667	2.6
AVERAGE OF POS	2.576	2.576	2.576	2.575	2.55	2.575	2.566667	2.6
AVERAGE	2.574333333							

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: Mass Transfer Operations-I

COURSE CODE: CT18501

CREDITS: 4

DEPARTMENT: Chemical Technology

PROGRAMME OUTCOMES(B.Sc.)Or POs:

- **PO1. Scientific Knowledge.** Apply the knowledge of Science, Mathematics, Engineering& Technology fundamentals to solve the complex problems**.**
- **PO2**.**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO3.Problem analysis:** Identify, formulate, research literature, and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

- **PSO1.** Understand the basic concepts of Mathematics, Physics and Chemistry to apply in the field of Chemical Technology.
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- **PSO3.** Apply the theoretical knowledge, problem solving techniques and skills acquired through practicals in Chemical and Pharmaceutical industries.
- **PSO4.** Design the equipment required to carry out the various unit operations and unit processes in Chemical and Pharmaceutical industries.
- **PSO5.**Demonstrate and develop the appropriate solutions of the complex level of Chemical engineering design-based problems to meet the specified needs and overall sustainability of the processes, considering the necessary approaches of safety, health hazards, societal and environmental factors.

	COURSE OUTCOMES	**BLOOM'S TAXONOMY LEVEL**

CO1	Describe the principles of diffusion	Understand
CO2	Explain the principle of distillation and types of distillation	Analyze
CO3	Analysis of fractionating column by McCabe Thiele Method	Apply
CO4	Explain the principle and applications of Leaching process	Apply
CO5	Explain the principles of extraction and extraction equipment	Apply

TABLE 1: CO, PO, PSO MAPPING

DEPARTMENT: Chemical Technology

SUBJECT: Mass Transfer Operations-I

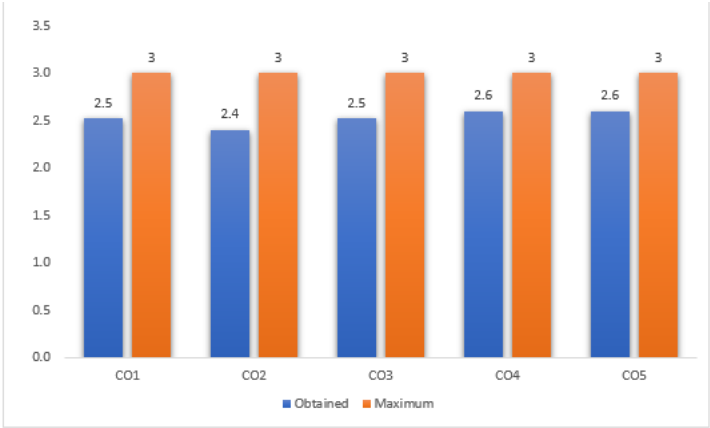
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H	H	H	S	S	S	S	S	H	S	S	H
C02	H	H	H	H	H	H	H	S	H	H	H	H
C03	H	H	H	H	H	H	H	S	H	H	H	H
C04	H	H	H	H	S	H	H	S	H	H	H	S
C05	H	H	H	H	S	H	S	H	H	H	H	H

H: Highly Supportive
S: Supportive

Table 2: COURSE OUTCOME ATTAINMENT

ATTAINMENT SCALE:

Pass percent of 85% and above= 3
Pass percent between 75% - 85%= 2
Pass percent between 75%- 65%= 1
Pass percent of less than 65%= 0



co	WEEKLY TEST		MID SEM		PREFINAL		ASSIGNMENT		VIVA-VOCE		ATTENDENCE			External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	73.2	1.0			97.6	3.0	87.8	3.0	82.9	2.0	29.3	0.0	1.8	95.1	3.0	3.0	2.5
CO2	73.2	1.0			97.6	3.0			82.9	2.0	29.3	0.0	1.5	95.1	3.0	3.0	2.4
CO3	73.2	1.0	100.0	3.0	97.6	3.0			82.9	2.0	29.3	0.0	1.8	95.1	3.0	3.0	2.5
CO4			100.0	3.0	97.6	3.0			82.9	2.0	29.3	0.0	2.0	95.1	3.0	3.0	2.6
CO5			100.0	3.0	97.6	3.0			82.9	2.0	29.3	0.0	2.0	95.1	3.0	3.0	2.6

AVERAGE	AVERAGE
3	2.528

Table 3: PROGRAMME OUTCOME MAPPING

OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.52	H 2.52	H 2.52					
CO2	H 2.4	H 2.4	H 2.4	H 2.4	H 2.4	H 2.4	H 2.4	
CO3	H 2.52	H 2.52	H 2.52	H 2.52	H 2.52	H 2.52	H 2.52	
CO4	H 2.6	H 2.6	H 2.6	H 2.6		H 2.6	H 2.6	
CO5	H 2.6	H 2.6	H 2.6	H 2.6		H 2.6		H 2.6
AVERAGE OF COS FOR POS	2.528	2.528	2.528	2.53	2.46	2.53	2.506666667	2.6
AVERAGE OF POS	2.5296	2.5296	2.5296	2.53	2.46	2.53	2.5066667	2.6
AVERAGE	2.526933333							

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: Mass Transfer Operations-II

COURSE CODE: CT18601

CREDITS: 4

DEPARTMENT: Chemical Technology

PROGRAMME OUTCOMES(B.Sc.)Or POs:

- **PO1. Scientific Knowledge.** Apply the knowledge of Science, Mathematics, Engineering& Technology fundamentals to solve the complex problems**.**
- **PO2**.**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
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PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

- **PSO1.** Understand the basic concepts of Mathematics, Physics and Chemistry to apply in the field of Chemical Technology.
- **PSO2.**Understand the basic concepts of various unit operations and unit processes in Chemical Technology
- **PSO3.** Apply the theoretical knowledge, problem solving techniques and skills acquired through practicals in Chemical and Pharmaceutical industries.
- **PSO4.** Design the equipment required to carry out the various unit operations and unit processes in Chemical and Pharmaceutical industries.
- **PSO5.**Demonstrate and develop the appropriate solutions of the complex level of Chemical engineering design-based problems to meet the specified needs and overall sustainability of the processes, considering the necessary approaches of safety, health hazards, societal and environmental factors.

	COURSE OUTCOMES	**BLOOM'S TAXONOMY LEVEL**

CO1	Explain the principle and applications of absorption and will be able to design packed column	Analyze
CO2	Describe humidity and its measurement and equipment for humidification operations	Understand
CO3	Choose drying equipment and will be able to do calculations in drying	Apply
CO4	Choose suitable equipment to carry out adsorption	Apply
CO5	Explain membrane separation process and will be able to classify membranes	Understand

TABLE 1: CO, PO, PSO MAPPING

DEPARTMENT: Chemical Technology

SUBJECT: Mass Transfer Operations-II

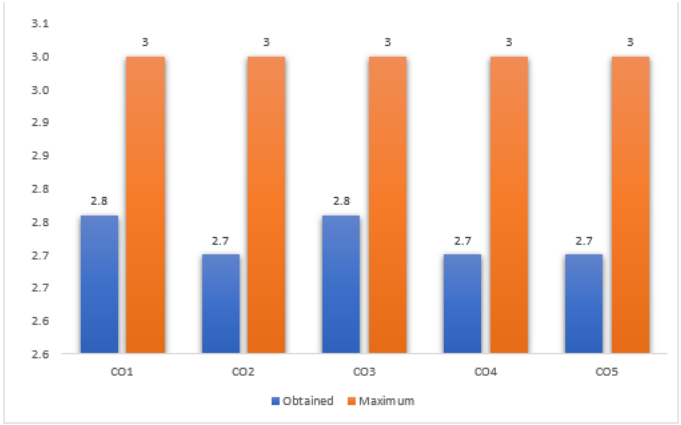
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H	H	H	S	S	S	S	S	H	S	S	H
C02	H	H	H	H	H	H	H	S	H	H	H	H
C03	H	H	H	H	H	H	H	S	H	H	H	H
C04	H	H	H	H	S	H	H	S	H	H	H	S
C05	H	H	H	H	S	H	S	H	H	H	H	H

H: Highly Supportive
S: Supportive

Table 2: COURSE OUTCOME ATTAINMENT

ATTAINMENT SCALE:

Pass percent of 85% and above= 3
Pass percent between 75% - 85%= 2
Pass percent between 75%- 65%= 1
Pass percent of less than 65%= 0



co	WEEKLY TEST		MID SEM		PREFINAL		ASSIGNMENT		VIVA-VOCE		ATTENDENCE			External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	100.0	3.0			97.2	3.0	91.7	3.0	88.9	3.0	27.8	0.0	2.4	97.2	3.0	3.0	2.8
CO2	100.0	3.0			97.2	3.0			88.9	3.0	27.8	0.0	2.3	97.2	3.0	3.0	2.7
CO3	100.0	3.0	91.7	3.0	97.2	3.0			88.9	3.0	27.8	0.0	2.4	97.2	3.0	3.0	2.8
CO4			91.7	3.0	97.2	3.0			88.9	3.0	27.8	0.0	2.3	97.2	3.0	3.0	2.7
CO5			91.7	3.0	97.2	3.0			88.9	3.0	27.8	0.0	2.3	97.2	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.724

Table 3: PROGRAMME OUTCOME MAPPING

OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.76	H 2.76	H 2.76					
CO2	H 2.7	H 2.7	H 2.7	H 2.7	H 2.7	H 2.7	H 2.7	
CO3	H 2.76	H 2.76	H 2.76	H 2.76	H 2.76	H 2.76	H 2.76	
CO4	H 2.7	H 2.7	H 2.7	H 2.7		H 2.7	H 2.7	
CO5	H 2.7	H 2.7	H 2.7	H 2.7		H 2.7		H 2.7
AVERAGE OF COS FOR POS	2.724	2.724	2.724	2.715	2.73	2.715	2.72	2.7
AVERAGE OF POS	2.7168	2.7168	2.7168	2.715	2.73	2.715	2.72	2.7
AVERAGE	2.7163							

COURSE OUTCOME MAPPING

MAPPING COURSE OUTCOMES LEADING TO THE ATTAINMENT OF PROGRAM OUTCOMES:

COURSE TITLE: Organic Surface Coatings Technology

COURSE CODE: CT18606B

CREDITS: 4

DEPARTMENT: Chemical Technology

PROGRAMME OUTCOMES(B.Sc.)Or POs:

- **PO1. Scientific Knowledge.** Apply the knowledge of Science, Mathematics, Engineering& Technology fundamentals to solve the complex problems**.**
- **PO2**.**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
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PROGRAMME SPECIFIC OUTCOME (DEPARTMENT WISE):

- **PSO1.** Understand the basic concepts of Mathematics, Physics and Chemistry to apply in the field of Chemical Technology.
- **PSO2.**Understand the basic concepts of various unit operations and unit processes in Chemical Technology
- **PSO3.** Apply the theoretical knowledge, problem solving techniques and skills acquired through practicals in Chemical and Pharmaceutical industries.
- **PSO4.** Design the equipment required to carry out the various unit operations and unit processes in Chemical and Pharmaceutical industries.
- **PSO5.**Demonstrate and develop the appropriate solutions of the complex level of Chemical engineering design-based problems to meet the specified needs and overall sustainability of the processes, considering the necessary approaches of safety, health hazards, societal and environmental factors.

	COURSE OUTCOMES	**BLOOM'S TAXONOMY LEVEL**

CO1	Describe the organic surface coatings.	Understand
CO2	Explain pigments and extruders.	Analyze
CO3	Explain resins, plasticizers and additives.	Apply
CO4	Explain paints with reference to testing and applications.	Analyze
CO5	Select coatings for different applications in chemical industries.	Apply

TABLE 1: CO, PO, PSO MAPPING

DEPARTMENT: Chemical Technology

SUBJECT: Organic Surface Coatings Technology

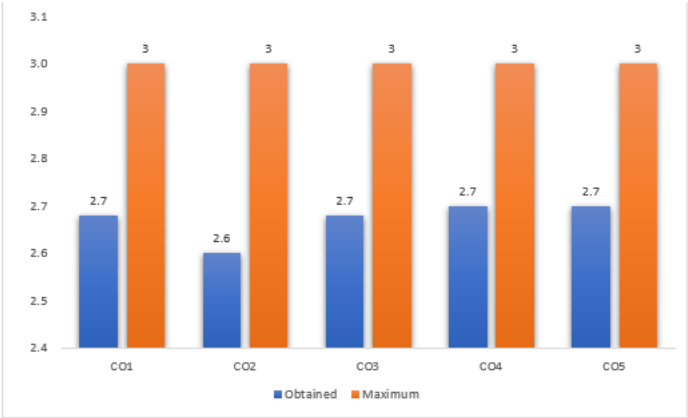
outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PS01	PS02	PS03	PS04
C01	H	H	H	S	S	S	S	S	H	S	S	H
C02	H	H	H	H	H	H	H	S	H	H	H	H
C03	H	H	H	H	H	H	H	S	H	H	H	H
C04	H	H	H	H	S	H	H	S	H	H	H	S
C05	H	H	H	H	S	H	S	H	H	H	H	H

H: Highly Supportive
S: Supportive

Table 2: COURSE OUTCOME ATTAINMENT

ATTAINMENT SCALE:

Pass percent of 85% and above= 3
Pass percent between 75% - 85%= 2
Pass percent between 75%- 65%= 1
Pass percent of less than 65%= 0



co	WEEKLY TEST		MID SEM		PREFINAL		ASSIGNMENT		VIVA-VOCE		ATTENDENCE			External Exam			
	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	pass%	Attainment level	co wise internal average	pass%	Attainment level	co wise external average	co wise total average
CO1	83.3	2.0			97.2	3.0	86.1	3.0	86.1	3.0	44.4	0.0	2.2	100.0	3.0	3.0	2.7
CO2	83.3	2.0			97.2	3.0			86.1	3.0	44.4	0.0	2.0	100.0	3.0	3.0	2.6
CO3	83.3	2.0	88.9	3.0	97.2	3.0			86.1	3.0	44.4	0.0	2.2	100.0	3.0	3.0	2.7
CO4			88.9	3.0	97.2	3.0			86.1	3.0	44.4	0.0	2.3	100.0	3.0	3.0	2.7
CO5			88.9	3.0	97.2	3.0			86.1	3.0	44.4	0.0	2.3	100.0	3.0	3.0	2.7

AVERAGE	AVERAGE
3	2.672

Table 3: PROGRAMME OUTCOME MAPPING

OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	H 2.68	H 2.68	H 2.68					
CO2	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	H 2.6	
CO3	H 2.68	H 2.68	H 2.68	H 2.68	H 2.68	H 2.68	H 2.68	
CO4	H 2.7	H 2.7	H 2.7	H 2.7		H 2.7	H 2.7	
CO5	H 2.7	H 2.7	H 2.7	H 2.7		H 2.7		H 2.7
AVERAGE OF COS FOR POS	2.672	2.672	2.672	2.67	2.64	2.67	2.66	2.7
AVERAGE OF POS	2.6704	2.6704	2.6704	2.67	2.64	2.67	2.66	2.7
AVERAGE	2.6689							