

# DATA SCIENCE

# ACADEMIC YEAR 2021-22

# Course Exit Analysis Report (SEM III)

# Subject- EM-III

# Subject Teacher - Prof. Dnyaneshwar Kadam

CO1: Understand the contents of Laplace transform & its application to solve real

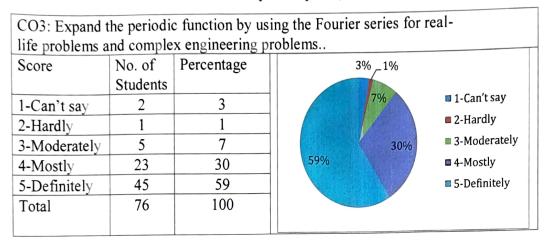
s in engineer	ing problems.	TI	
No. of	Percentage		
Students		0% [ 3%	
0	0		1-Can't say
2	3		2-Hardly
30	39	39%	3-Moderately
			■ 4-Mostly
31	41	41%	5-Definitely
13	17		
76	100		
	No. of Students 0 2 30 31 13	Students         0         0           2         3         30         39           31         41         13         17	No. of Students         Percentage           0         0           2         3           30         39           31         41           13         17

CO2: Understand the concept of inverse Laplace transform of various						
functions and its applications in engineering problems.						
Score	No. of	Percentage		<sup>0%</sup> 7%		
	Students			170		
1-Can't say	1	1			1-Can't say	
2-Hardly	0	0	46%		2-Hardly	
3-	5	7	40%		3-Moderately	
Moderately				46%	4-Mostly	
4-Mostly	35	46			5-Definitely	
5-Definitely	35	46				
Total	76	100				



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CO4: Understand complex variable theory, application of harmonic conjugate to get orthogonal trajectories and analytic functions.					
Score	No. of Students	Percentage	0% 0%		
1-Can't say 2-Hardly	0	0	7%	1-Can't say	
3- Moderately	5	7	33%	<ul><li>2-Hardly</li><li>3-Moderately</li></ul>	
4-Mostly	25	33	60%	■ 4-Mostly	
5-Definitely	46	60		5-Definitely	
Total	76	100			



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CO5: Apply the concept of Correlation and Regression to the engineering problems in data science, machine learning, and AI.					
Score	No. of Students	Percentage	0% -1% 7%		
1-Can't say	0	0		1-Can't say	
2-Hardly	1	1		2-Hardly	
3Moderately	5	7	33% 59%	3Moderately	
4-Mostly	25	33	.35%	■ 4-Mostly	
5-Definitely	45	59		5-Definitely	
Total	76	100			

getting the spr Score	nd the concept ead of the data No. of Students	and distribution	y and expectation for on of probabilities.	
1-Can't say	0	0		■ 1-Can't say
2-Hardly	0	0	29%	<ul> <li>2-Hardly</li> <li>3-Moderately</li> </ul>
3-Moderately	4	5	66%	4-Model atery
4-Mostly	22	29		■ 5-Definitely
5-Definitely	50	66		_ 0 2000000
Total	76	100		
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# Course Exit Analysis Report (SEM III)

# Subject- DLCA

## Subject Teacher - Prof. Megha Pandey

Score	No. of Students	Percentage		0%	] 0%	
1-Can't say	0	0		CE ST		1-Can't say
2-Hardly	1	1			28%	2-Hardly
3-Moderately	0	0	]			3-Moderately
4-Mostly	21	28		71%		4-Mostly
5-Definitely	54	71	1			5-Definitely
Total	76	100				
CO2: Are you ir	terested to	study advance	ed con	ncepts of	this subject	?
Score	No. of Students	Percentage		0%1	2%4%	
1-Can't say	0	0				🛯 1-Can't say
2-Hardly	0	0	1			2-Hardly
3-Moderately	5	7			38%	3-Moderately
4-Mostly	27	36	1	58%		4-Mostly
5-Definitely	44	58			8	5-Definitely
Total	76	100				



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CO3: Do you believe you will be able to apply the knowledge in this course to solve real world problems?					
Score	No. of Students	Percentage	0% ر <sup>3%</sup>		
1-Can't say	0	0		1-Can't say	
2-Hardly	2	3	13%	■ 2-Hardly	
3-	10	13	42%	3-Moderately	
Moderately			1204	4-Mostly	
4-Mostly	32	42	42%	■ 5-Definitely	
5-	32	42	444		
Definitely					
Total	76	100			

CO4: We learned variety of concepts. Was this useful?					
Score	No. of Students	Percentage	0% [1%		
1-Can't say	0	0		1-Can't say	
2-Hardly	1	1	32% 24%	■ 2-Hardly	
3-	18	24		3-Moderately	
Moderately				4-Mostly	
4-Mostly	33	43	1201	5-Definitely	
5-	24	32	43%	5	
Definitely					
Total	76	100			



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CO5: Will you be able to apply the techniques learned in the subject?					
Score	No. of	Percentage	0% 1%		
	Students		070		
1-Can't say	0	0	21%	1-Can't say	
2-Hardly	1	1	40%	2-Hardly	
3-Moderately	16	21	and the second	3-Moderately	
4-Mostly	29	38	38%	4-Mostly	
5-Definitely	30	40		5-Definitely	
Total	76	100			

CO6: Do you th	nink that sylla	bus needs a revis	sion?	
Score	No. of Students	Percentage	0%_0%_3%	1-Can't say
1-Can't say	0	0		■ 2-Hardly
2-Hardly	0	0	37%	
3-Moderately	2	3	60%	3- Moderately
4-Mostly	28	37		■ 4-Mostly
5-Definitely	46	60		_ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
Total	76	100		



17 Principal



#### DATA SCIENCE

## ACADEMIC YEAR 2021-22

#### Course Exit Analysis Report (SEM III)

#### Subject-CG

#### Subject Teacher - Prof. Sneha Kanawade

CO1: On what scale, the contents of the syllabus are sufficient to understand the course? No. of Score Percentage Students 1% 0% 1-Can't say 1 1 1-Can't say 2-Hardly 0 0 16% 2-Hardly 3-16 12 3-Moderately Moderately 53% 30% 4-Mostly 4-Mostly 23 30 5-Definitely 5-53 40 Definitely Total 76 100

CO2: Are you interested to study advanced concepts of this subject?						
Score	No. of Students	Percentage	10/			
1-Can't say	0	0	0% <sup>1%</sup>			
2-Hardly	1	1	■ 1-Can't say			
3-	22	29	29% 2-Hardly			
Moderately			51%			
4-Mostly	14	19	19% ■ 4-Mostly			
5-	39	51	5-Definitely			
Definitely						
Total	76	100				



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		be able to apply	the knowledge in the	s course to
solve real wo	orld problems?			
Score	No. of Students	Percentage		1-Can't say
1-Can't say	0	0	0%_1%	I-Call C Say
2-Hardly	1	1		2-Hardly
3-	19	25	25%	
Moderately			51%	■ 3- Moderately
4-Mostly	17	23	23%	-
5-	39	51		4-Mostly
Definitely				5-Definitely
Total	76	100		

CO4: We learned variety of concepts. Was this useful?				
Score	No. of Students	Percentage	1%_4%	
1-Can't	1	1	28%	■ 1- Can't say
say			28% 29%	<ul><li>2-Hardly</li><li>3-Moderately</li></ul>
2-Hardly	3	4		-
3-Moderately	22	29		4-Mostly
4-Mostly	29	38	38%	5-Definitely
5-Definitely	21	28		
Total	76	100		



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CO5: Will y	CO5: Will you be able to apply the techniques learned in the subject?				
Score	No. of Students	Percentage	0% 1%		
1-Can't say	0	0		<ul> <li>1-Can't say</li> <li>2-Hardly</li> </ul>	
2-Hardly	1	1	45% 25%	<ul> <li>2-Hardly</li> <li>3-Moderately</li> </ul>	
3- Moderately	19	25	29%	<ul> <li>4-Mostly</li> <li>5-Definitely</li> </ul>	
4-Mostly	22	29		S-Dennitely	
5-	35	45			
Definitely					
Total	76	100			

Score	No. of	bus needs a revis Percentage		
Score	Students	rereentage	0% г <sup>5%</sup>	1-Can't say
1-Can't say	0	0	12%	■ 2-Hardly
2-Hardly	4	5		_
3-Moderately	9	12	59% 24%	■ 3-
4-Mostly	18	24	59%	Moderately 4-Mostly
5-Definitely	45	59		4-Mostly
				5-Definitely
Total O	76	100		
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#### DATA SCIENCE

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#### Course Exit Analysis Report (SEM III)

#### Subject- Data Structures

#### Subject Teacher - Prof. Monali Deshmukh

 CO1: Identify functionalities of Data Structure of a computer based system to solve a engineering problem.

 Score
 No. of

 Percentage

 Students

	Students		0% _ 3%	I-Can t Say
1-Can't say	0	0	18%	2-Hardly
2-Hardly	2	3		
3-Moderately	15	41	41%	3- Moderately
4-Mostly	25	38	38%	■ 4-Mostly
5-Definitely	30	18		,
Total	76	100		5-Definitely

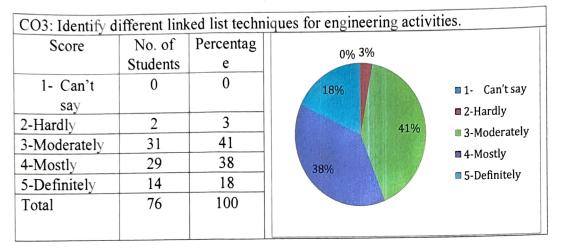
CO2: To produce a variety of potential design solutions suited to meet functional requirements for implementation of stack and queue.

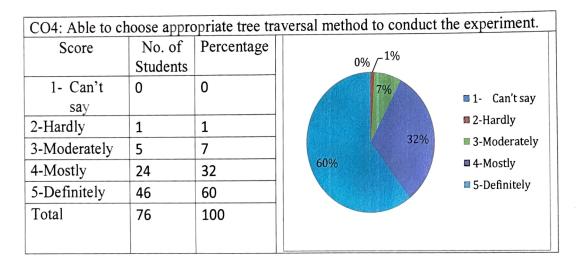
Score	No. of	Percentag	0% 0%	
	Student s	e	14%	1-Can't say
1-Can't say	0	0		■ 2-Hardly
2-Hardly	0	0	53% 33%	3-Moderately
3-Moderately	11	14	5574	4-Mostly
4-Mostly	25	33		5-Definitely
5-Definitely	40	53		
Total	76	100		



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#### Course Exit Analysis Report (SEM III)

CO5: Adapt graph traversal techniques to solve engineering problems.					
Score	No. of Students	Percentage	<sup>1%</sup> ] <sub></sub> <sup>1%</sup>		
1- Can't sav	1	1	24%	■ 1- Can't say ■ 2-Hardly	
2-Hardly	1	1	42%	■ 3-Moderately	
3-Moderately	18	24		4-Mostly	
4-Mostly	24	32	32%	5-Definitely	
5-Definitely	32	42			
Total	76	100			

CO6: Apply theory and principles searching techniques of computer science and engineering to solve an engineering problem.

engineering to s	orve un enginee	ing proorein.		
Score	No. of	Percentage		
	Students		0% 0%	
1- Can't	0	0		1-Can't say
say			20%	
2-Hardly	0	0	39%	■ 2-Hardly
3-Moderately	30	39	41%	3-Moderately
4-Mostly	31	41	41%	
5-Definitely	15	20		4-Mostly
Total	76	100		5-Definitely
0				<u> </u>
T				

Principal



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# Course Exit Analysis Report (SEM III)

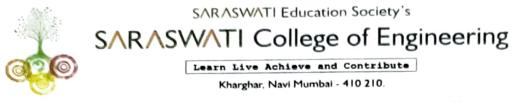
# Subject-DSGT

#### Subject Teacher - Prof. Mitrakshi Patil

CO1: On what scale, the contents of the syllabus are sufficient to understand the course?

course?				
Score	No. of Students	Percentage	0% 3%	
1-Can't say	0	0	070 44%	1-Can't say
2-Hardly	2	3		■ 2-Hardly
3-	3	4	29%	■ 3-Moderately
Moderately			64%	■ 4-Mostly
4-Mostly	22	29	U V	5-Definitely
5-	49	64		- 5-Demittery
Definitely				
Total	76	100		

CO2: Are yo	CO2: Are you interested to study advanced concepts of this subject?				
Score	No. of	Percentage	0% г <sup>4%</sup>		
	Students		0% [ 170		
1-Can't	0	0		🛯 1-Can't say	
say			29%	2-Hardly	
2-Hardly	3	4	45% 29%	3-Moderately	
3-	22	28		4-Mostly	
Moderately			22%	5-Definitely	
4-Mostly	17	45			
5-	34	24			
Definitely					
Total	76	100			



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•	u believe you wil orld problems?	l be able to appl	y the knowledge in this	s course to
Score	No. of Students	Percentage	3%	
1-Can't	0	0	0% 3%	
say			18%	1- Can't say
2-Hardly	2	3		2-Hardly
3-	31	41	41%	3-Moderately
Moderately			38%	4-Mostly
4-Mostly	29	38		5-Definitely
5-	14	18		
Definitely				
Total	76	100		

CO4: We learne	CO4: We learned variety of concepts. Was this useful?				
Score	No. of	Percentage	1%1%4%	1-Can't say	
	Students		4%		
1-Can't	1	1		2-Hardly	
say					
2-Hardly	1	1	36%	3-	
3-Moderately	3	4	58%	Moderately	
4-Mostly	27	36		4-Mostly	
5-Definitely	44	58		5-Definitely	
Total	76	100			



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CO5: Will you be able to apply the techniques learned in the subject?				
Score	No. of Students	Percentage	0% Γ <sup>3%</sup>	1Can't say
1Can't say	0	0	18%	■ 2-Hardly
2-Hardly 3-	2 14	3 18	53% 26%	■ 3- Moderately
Moderately 4-Mostly	20	26		• 4-Mostly
5- Definitely	40	53		5-Definitely
Total	76	100		

CO6: Do you	u think that sylla	bus needs a rev	ision?	
Score	No. of	Percentage	201	
	Students		0% 3%	
1-Can't	0	0	20%	1- Can't say
say			37%	2-Hardly
2-Hardly	2	3	37%	3-Moderately
3-	28	37	41%	■ 4-Mostly
Moderately			1170	5-Definitely
4-Mostly	31	41		
5-	15	20		
Definitely				
Total	76	100		0
	tty		Prim	etpal



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## ACADEMIC YEAR 2021-22

#### Course Exit Analysis Report (SEM III)

## Subject-OOPM

# Subject Teacher - Prof. Mitrakshi Patil

CO1: On what scale, the contents of the syllabus are sufficient to understand the course?

course?			
Score	No.	Percentag	
	of	e	0%1%
	Stud		🗉 1-Can't say
	ents		36% 21% ■ 2-Hardly
1-Can't say	0	0	■ 3-Moderately
2-Hardly	1	1	■ 4-Mostly
3-Moderately	16	21	42% 5-Definitely
4-Mostly	32	42	a 3-Definitely
5-Definitely	27	36	
Total	76	100	

CO2: Are you interested to study advanced concepts of this subject?				
Score	No. of	Percentag		_1%
	Students	e	0%	
1- Can't	0	0		🗖 1- Can't say
say			26%	2-Hardly
2-Hardly	0	0		3-Moderately
3-	1	1		4-Mostly
Moderately			73%	5-Definitely
4-Mostly	20	26		S-Demittery
5-Definitely	55	73		
Total	76	100		



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#### ACADEMIC YEAR 2021-22

# Course Exit Analysis Report (SEM III)

CO3: Do you solve real we	-		le to apply the knowledge in the	nis course to
Score	No. of Students	Percentage	0% [ <sup>1%</sup>	
1-Can't say	0	0	26%	1-Can't say
2-Hardly 3-	1 20	1 26	40%	<ul> <li>2-Hardly</li> <li>3-Moderately</li> </ul>
Moderately	20	20		■ 4-Mostly
4-Mostly	25	33		5-Definitely
5-	30	40	33%	
Definitely				
Total	76	100		

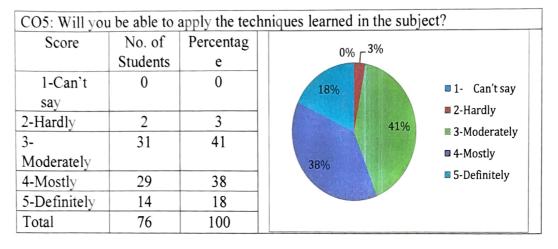
CO4: We learned variety of concepts like Inheritance, exception handling. Was this useful?

Score	No. of Students	Percentage	0% 0%			
1-Can't say	0	0		1- Can't say		
2-Hardly	0	0	41%	2-Hardly		
3-Moderately	16	21		3-Moderately		
4-Mostly	29	38	38%	<ul> <li>4-Mostly</li> <li>5-Definitely</li> </ul>		
5-Definitely	31	41		- 5-Dennitely		
Total	76	100				



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think that syll	labus needs a r	evision?		
No. of	Percentage			
Students		0% 0%		
0	0			
0	0	2201 26%	1-Can't say	
20	26	32%	2-Hardly	
			3-Moderately	
32	42		■ 4-Mostly	
24	32	42%	5-Definitely	
76	100			
HOD Principal				
	No. of Students 0 0 20 32 24 76	No. of Students         Percentage           0         0           0         0           20         26           32         42           24         32           76         100	Students     0%       0     0       0     0       20     26       32     42       24     32       76     100	



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN DATA SCIENCE ACADEMIC YEAR 2021-22 (ODD) Action Taken based on Feedback from Students

# Summary of Feedback –Semester III:

Course exit surveys were designed by course in-charges in order to enhance the Teaching-Learning Process. Students were told to give suggestions, which were as follows:

- Students wanted to know more about how Data Science and Artificial Intelligence are correlated and different areas to explore with respect to employability.
- Wished that some videos to be included in teaching courses like Computer graphics and Data Structures.
- Needed detailed notes for mathematical subjects like Engineering Mathematics-III and Discrete structures and graph theory with more solved problems.

# Action Taken:

- Webinar was conducted on 'Insights into AI' on 22nd October 2021 to throw more light on the relation between Data Science and Artificial Intelligence.
- NPTEL videos were shown in lectures wherever applicable.
- Detailed notes were provided to students for every subject.
- To make the students aware of the competitive exams, an Expert lecture was conducted on 'A Glance on Competitive Exams.' On 08<sup>th</sup> April 2022.

HOD CSE-DS

Principal