



## Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95<sup>th</sup> Rank in NIRF –2023 - Among Colleges in India.



### 2.6.1 Sample Document for Programme Outcomes (POs) and Course Outcomes (COs) Attainment Calculation

**Programme: M.Com**

**Course Code: 22PIB2E3**

**Course Title: INTERNATIONAL SUPPLY CHAIN MANAGEMENT**

**Semester: II**

**Batch: 2022-2024**

CO's	CO1	CO2	CO3	CO4	CO5	CO1%	CO2%	CO3%	CO4%	CO5%
Marks	5	5	20	10	15	100	100	100	100	50
22-PI-01	3	5	9	7	10	60	100	45	70	33
22-PI-03	2	5	10	7	9	40	100	50	70	30
22-PI-04	1	5	12	6	10	20	100	60	60	33
22-PI-05	3	5	12	6	6	60	100	60	60	20
22-PI-06	2	5	10	6	10	40	100	50	60	33
22-PI-07	3	4	10	8	7	60	80	50	80	23
22-PI-08	1	5	10	6	10	20	100	50	60	33
22-PI-09	4	5	10	7	10	80	100	50	70	33
22-PI-10	2	5	10	6	9	40	100	50	60	30
22-PI-11	1	5	10	6	10	20	100	50	60	33
22-PI-12	2	5	13	8	10	40	100	65	80	33
22-PI-13	2	5	15	8	11	40	100	75	80	37
22-PI-14	1	5	13	7	6	20	100	65	70	20
22-PI-15	4	5	11	7	11	80	100	55	70	37
22-PI-16	2	5	13	8	12	40	100	65	80	40
22-PI-17	1	5	12	8	9	20	100	60	80	30
22-PI-19	2	5	13	8	12	40	100	65	80	40
22-PI-20	2	5	15	8	12	40	100	75	80	40
22-PI-21	1	5	11	8	11	20	100	55	80	37
22-PI-22	1	5	12	8	12	20	100	60	80	40
22-PI-24	2	5	13	8	12	40	100	65	80	40
22-PI-26	0	5	11	6	10	0	100	55	60	33

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	CO1	CO2	CO3	CO4	CO5
	3.0	3.0	3.0	3.0	3.0
22-PI-01	1.8	3.0	1.4	2.1	1.0
22-PI-03	1.2	3.0	1.5	2.1	0.9
22-PI-04	0.6	3.0	1.8	1.8	1.0
22-PI-05	1.8	3.0	1.8	1.8	0.6
22-PI-06	1.2	3.0	1.5	1.8	1.0
22-PI-07	1.8	2.4	1.5	2.4	0.7
22-PI-08	0.6	3.0	1.5	1.8	1.0
22-PI-09	2.4	3.0	1.5	2.1	1.0
22-PI-10	1.2	3.0	1.5	1.8	0.9
22-PI-11	0.6	3.0	1.5	1.8	1.0
22-PI-12	1.2	3.0	2.0	2.4	1.0
22-PI-13	1.2	3.0	2.3	2.4	1.1
22-PI-14	0.6	3.0	2.0	2.1	0.6
22-PI-15	2.4	3.0	1.7	2.1	1.1
22-PI-16	1.2	3.0	2.0	2.4	1.2
22-PI-17	0.6	3.0	1.8	2.4	0.9
22-PI-19	1.2	3.0	2.0	2.4	1.2
22-PI-20	1.2	3.0	2.3	2.4	1.2
22-PI-21	0.6	3.0	1.7	2.4	1.1
22-PI-22	0.6	3.0	1.8	2.4	1.2
22-PI-23	1.2	3.0	2.0	2.4	1.2
22-PI-26	0.0	3.0	1.7	1.8	1.0



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	LEVEL 3	60	Percentage of Students to get	60	%Marks
	LEVEL 2	60	Percentage of Students to get	60	%Marks
LEVELS	LEVEL 1	60	Percentage of Students to get	60	%Marks

### ATTAINMENT OF COs - 22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAAGEMENT

Academic Year : 2022 - 2024							
Student Strength					ESE (100%)		
22							
	Expected Attainment	Expected % of Students	Act. Student	ESE	Actual Attainment	Actual % of Students Attainment	CO Level Attainment
CO1	60	40	9	14	100	64	<b>1.9</b>
CO2	60	40	9	22	100	100	<b>3.0</b>
CO3	60	40	9	22	100	100	<b>3.0</b>
CO4	60	40	9	22	100	100	<b>3.0</b>
CO5	60	40	9	19	100	86	<b>2.6</b>

Target Percentage = 60%			
	Students above Target	% of Students above Target	CO Level Attainment
CO1	14	35	<b>1.1</b>
CO2	22	55	<b>1.7</b>
CO3	22	55	<b>1.7</b>
CO4	22	55	<b>1.7</b>
CO5	19	48	<b>1.4</b>



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### 22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT

Roll No.or	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
		Poor	Average	Good			
Reg. No.		CO1	CO2	CO3	CO4	CO5	
22-PI-01	Gowtham. M	5	5	5	5	5	
22-PI-03	Jagadeeshwaran. T	5	5	5	5	5	
22-PI-04	Kaviarasu. P.k	5	5	5	5	5	
22-PI-05	Lingaboopathi. M	5	5	5	5	5	
22-PI-06	Naveen. K	5	5	5	5	5	
22-PI-07	Naveenkumar. D	5	5	5	3	5	
22-PI-08	Prakashkumar. P	5	5	5	5	5	
22-PI-09	Prasad. M	5	5	5	5	5	
22-PI-10	Premkumar. M	5	5	5	5	5	
22-PI-11	Thivakar. K	5	5	5	5	3	
22-PI-12	Amuthavalli. K	5	5	5	5	5	
22-PI-13	Darshna. K.M	5	5	5	3	5	
22-PI-14	Dharunika. B	5	5	5	5	5	
22-PI-15	Indhurekha. R	5	5	5	5	5	
22-PI-16	Kaviya. P	5	5	5	5	5	
22-PI-17	Malavika. D	5	5	5	5	3	
22-PI-19	Nandhini. S	5	5	5	5	5	
22-PI-20	Pavithra. P	5	3	5	5	5	
22-PI-21	Seethasri. S	5	5	5	5	5	
22-PI-22	Subha Shree. P	5	5	5	5	3	
22-PI-24	Suvetha. M	5	5	5	5	5	
22-PI-26	Yuvasree. A	5	5	5	5	5	
	Student 22						
	(a) Total number of students in the batch	22	22	22	22	22	
Count of survey scale values	1	0	0	0	0	0	
	3	0	1	0	2	3	
	5	22	21	22	20	19	
Target value of CO		Only survey scale values of 3 and 5 will be considered.					
	(b) No of survey scales values of 3 and 5	22	22	22	22	22	
CO attainment value in % = (b) / (a)		100%	100%	100%	100%	100%	
		100	100	100	100	100	
		3	3	3	3	3	



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### Computation of CO Overall Attainment

#### 22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT

CO	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IA)	OVERALL CO ATTAINMENT (0.8*DA+0.2IA)
CO1	1.9	3	2.12
CO2	3	3	3.00
CO3	3	3	3.00
CO4	3	3	3.00
CO5	2.6	3	2.68
Average CO Attainment			<b>2.78</b>

### Program Outcome (PO) Attainment

$PO = (\text{Weighted Average value of PO} * \text{Average CO Attainment}) / 3$

PO	Attainment Level	PO Attainment
PO1	2.4	<b>2.22</b>
PO2	2	<b>1.85</b>
PO3	2	<b>1.85</b>
PO4	2.4	<b>2.22</b>
PO5	2	<b>1.85</b>
PO6	2.2	<b>2.04</b>
PO7	2	<b>1.85</b>
PSO1	2.4	<b>2.22</b>
PSO2	2	<b>1.85</b>



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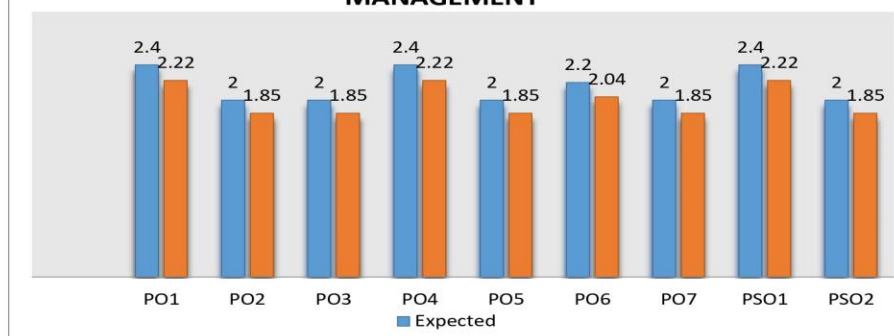
### 22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT MAPPING OF CO - PO- PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	3	2	2	3	1	2	2	1	1
CO2	2	2	2	2	2	1	2	3	3
CO3	3	1	1	3	3	3	1	3	1
CO4	3	2	2	3	3	3	2	2	2
CO5	1	3	3	1	1	2	3	3	3
	12	10	10	12	10	11	10	12	10
Expected PO/PSO	2.4	2	2	2.4	2	2.2	2	2.4	2

### Result of PO Attainment 22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
Expected	2.4	2	2	2.4	2	2.2	2	2.4	2
Attainment	2.22	1.85	1.85	2.22	1.85	2.04	1.85	2.22	1.85

### 22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT





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**Programme: B.Sc Computer Science**  
**Course Code: 21UCS2A2**  
**Course Title: DISCRETE MATHEMATICS LEVEL-I**  
**Semester: II**  
**Batch: 2021-2024**  
**Faculty Name: G. Angayarkanni**

CO's	CO1	CO2	CO3	CO4	CO1%	CO2%	CO3%	CO4%
Marks	5	5	20	40	100	100	100	100
2791	3	1	13	15	60	20	65	38
2792	2	2	7	18	40	40	35	45
2793	4	1	10	8	80	20	50	20
2794	4	1	9	19	80	20	45	48
2795	4	1	10	13	80	20	50	33
2796	2	2	8	20	40	40	40	50
2797	4	0	12	6	80	0	60	15
2798	5	2	12	22	100	40	60	55
2799	2	1	7	18	40	20	35	45
2800	1	1	10	10	20	20	50	25
2801	3	2	5	27	60	40	25	68
2802	1	0	7	7	20	0	35	18
2803	2	0	11	11	40	0	55	28
2804	1	1	10	16	20	20	50	40
2805	4	1	12	12	80	20	60	30
2806	2	0	9	4	40	0	45	10
2807	2	2	7	11	40	40	35	28
2808	3	2	10	28	60	40	50	70
2809	3	1	5	5	60	20	25	13
2810	3	2	5	18	60	40	25	45
2811	3	3	11	15	60	60	55	38
2812	1	0	6	22	20	0	30	55
2813	3	2	16	23	60	40	80	58
2814	1	0	12	19	20	0	60	48
2815	3	0	17	24	60	0	85	60
2816	3	3	13	27	60	60	65	68
2817	4	2	6	16	80	40	30	40
2819	3	1	9	23	60	20	45	58
2820	5	0	11	19	100	0	55	48
2821	5	0	6	19	100	0	30	48
2822	2	1	9	17	40	20	45	43
2823	5	0	4	12	100	0	20	30
2824	5	1	8	14	100	20	40	35
2825	4	4	14	21	80	80	70	53
2826	5	2	11	24	100	40	55	60
2827	3	2	12	26	60	40	60	65
2828	3	2	11	22	60	40	55	55
2829	1	2	14	22	20	40	70	55
2830	2	4	13	21	40	80	65	53
2831	1	0	9	22	20	0	45	55
2832	1	0	7	14	20	0	35	35

	OVERALL CO ATTAINED			
	CO1	CO2	CO3	CO4
2791	3.0	3.0	3.0	3.0
2792	1.8	0.6	2.0	1.1
2793	1.2	1.2	1.1	1.4
2794	2.4	0.6	1.5	0.6
2795	2.4	0.6	1.4	1.4
2796	2.4	0.6	1.5	1.0
2797	1.2	1.2	1.2	1.5
2798	2.4	0.0	1.8	0.5
2799	3.0	1.2	1.8	1.7
2800	1.2	0.6	1.1	1.4
2801	0.6	0.6	1.5	0.8
2802	1.8	1.2	0.8	2.0
2803	0.6	0.0	1.1	0.5
2804	1.2	0.0	1.7	0.8
2805	0.6	0.6	1.5	1.2
2806	2.4	0.6	1.8	0.9
2807	1.2	0.0	1.4	0.3
2808	1.2	1.2	1.1	0.8
2809	1.8	1.2	1.5	2.1
2810	1.8	0.6	0.8	0.4
2811	1.8	1.2	0.8	1.4
2812	1.8	1.8	1.7	1.1
2813	0.6	0.0	0.9	1.7
2814	1.8	1.2	2.4	1.7
2815	0.6	0.0	1.8	1.4
2816	1.8	0.0	2.6	1.8
2817	1.8	1.8	2.0	2.0
2819	2.4	1.2	0.9	1.2
2820	1.8	0.6	1.4	1.7
2821	3.0	0.0	1.7	1.4
2822	3.0	0.0	0.9	1.4
2823	1.2	0.6	1.4	1.3
2824	3.0	0.0	0.6	0.9
2825	3.0	0.6	1.2	1.1
2826	2.4	2.4	2.1	1.6
2827	3.0	1.2	1.7	1.8
2828	1.8	1.2	1.8	2.0
2829	1.8	1.2	1.7	1.7
2830	0.6	1.2	2.1	1.7
2831	1.2	2.4	2.0	1.6
2832	0.6	0.0	1.4	1.7
2832	0.6	0.0	1.1	1.1



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2833	5	0	9	21	100	0	45	53
2834	5	2	12	26	100	40	60	65
2835	5	2	10	29	100	40	50	73
2836	3	2	13	22	60	40	65	55
2837	1	1	7	24	20	20	35	60
2838	1	1	13	23	20	20	65	58
2839	4	2	10	23	80	40	50	58
2840	3	1	8	16	60	20	40	40
2841	1	0	10	20	20	0	50	50
2842	2	2	16	14	40	40	80	35
2843	3	0	13	26	60	0	65	65
2844	3	2	10	15	60	40	50	38
2845	4	1	7	16	80	20	35	40
2846	3	3	11	18	60	60	55	45
2847	1	0	11	14	20	0	55	35
2848	3	3	14	27	60	60	70	68
2849	3	1	15	27	60	20	75	68

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2833	3.0	0.0	1.4	1.6
2834	3.0	1.2	1.8	2.0
2835	3.0	1.2	1.5	2.2
2836	1.8	1.2	2.0	1.7
2837	0.6	0.6	1.1	1.8
2838	0.6	0.6	2.0	1.7
2839	2.4	1.2	1.5	1.7
2840	1.8	0.6	1.2	1.2
2841	0.6	0.0	1.5	1.5
2842	1.2	1.2	2.4	1.1
2843	1.8	0.0	2.0	2.0
2844	1.8	1.2	1.5	1.1
2845	2.4	0.6	1.1	1.2
2846	1.8	1.8	1.7	1.4
2847	0.6	0.0	1.7	1.1
2848	1.8	1.8	2.1	2.0
2849	1.8	0.6	2.3	2.0



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### ATTAINMENT OF COs - 21UCS2A2 DISCRETE MATHEMATICS

Academic Year : 2021 - 2022							
Student Strength	58				ESE (100%)		
	Expected Attainment	Expected % of Students	Act. Student	ESE	Actual Attainment	Actual % of Students Attainment	CO Level Attainment
CO1	50	50	29	37	100	64	<b>1.9</b>
CO2	50	50	29	6	21	10	<b>0.3</b>
CO3	50	50	29	35	100	60	<b>1.8</b>
CO4	50	50	29	27	93	47	<b>1.4</b>

Target Percentage = 50%			
	Students above Target	% of Students above Target	CO Level Attainment
CO1	37	64	<b>1.9</b>
CO2	6	10	<b>0.3</b>
CO3	35	60	<b>1.8</b>
CO4	27	47	<b>1.4</b>



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### 21UCS2A2 - DISCRETE MATHEMATICS

Roll No.or	Name of Student	To what extent do you feel you have learnt and will be able to do the following (which are the COs of the					Signature of student
		Poor	Average	Good			
Reg. No.		CO1	CO2	CO3	CO4	CO5	(optional)
21-CE-01		3	3	3	5		
21-CE-02		1	5	5	3		
21-CE-03		3	3	5	3		
21-CE-04		3	5	5	3		
21-CE-05		3	3	5	5		
21-CE-06		3	5	5	5		
21-CE-07		5	5	5	5		
21-CE-08		5	5	5	5		
21-CE-09		5	5	5	5		
21-CE-10		3	3	5	5		
21-CE-12		5	3	3	5		
21-CE-13		3	3	3	5		
21-CE-14		5	5	3	5		
21-CE-15		1	5	3	5		
21-CE-16		5	5	5	5		
21-CE-17		3	5	5	5		
21-CE-19		1	3	5	3		
21-CE-20		5	1	1	3		
21-CE-21		5	5	1	3		
21-CE-22		5	3	5	5		
21-CE-23		3	5	5	5		
21-CE-24		3	5	5	5		
21-CE-25		3	1	5	5		
21-CE-26		3	3	3	5		
21-CE-27		5	5	3	5		
21-CE-28		5	5	5	3		
21-CE-29		5	5	5	3		
21-CE-30		5	1	5	3		
21-CE-31		3	1	5	5		
21-CE-32		3	3	5	5		
21-CE-33		3	3	3	5		
21-CE-34		3	3	3	5		
21-CE-35		1	3	5	5		
21-CE-36		3	3	5	5		
21-CE-37		1	3	5	5		



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21-CE-38		5	3	5	3		
21-CE-39		5	3	5	3		
21-CE-40		5	5	3	5		
21-CE-41		5	5	3	5		
21-CE-42		3	5	3	5		
21-CE-43		3	5	3	5		
21-CE-44		3	5	5	5		
21-CE-45		3	5	5	3		
21-CE-46		3	5	5	1		
21-CE-47		1	5	5	3		
21-CE-48		3	5	5	1		
21-CE-49		1	5	5	5		
21-CE-50		5	5	5	1		
21-CE-51		5	5	5	3		
21-CE-52		5	5	3	3		
21-CE-53		5	5	3	5		
21-CE-54		5	5	3	5		
21-CE-55		5	5	3	5		
21-CE-56		5	5	5	5		
21-CE-57		3	3	5	3		
21-CE-58		3	3	1	3		
21-CE-59		5	1	1	5		
21-CE-60		5	1	3	5		
	Student						
	(a) Total number of	58	58	58	58		
Count of survey scale values	1	7	6	4	3		
	3	25	19	18	17		
	5	26	33	36	38		
Target value of CO		Only survey scale values of					
(b) No of survey		52	53	55	56		
CO attainment value		90%	91%	95%	97%		
		88	90	93	95		
		2.64	2.7	2.79	2.85		



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### Computation of CO Overall Attainment 21UCS2A2 - DISCRETE MATHEMATICS LEVEL I

CO	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IA)	OVERALL CO ATTAINMENT
CO1	1.9	2.64	2.11
CO2	0.3	2.7	1.02
CO3	1.8	2.79	2.08
CO4	1.4	2.85	1.82
Average CO Attainment			<b>1.76</b>

### Program Outcome (PO) Attainment

PO = (Weighted Average value of PO \* Average CO Attainment) / 3

PO	Attainment Level	PO Attainment
PO1	3	<b>1.76</b>
PO2	2.25	<b>1.32</b>
PO3	3	<b>1.76</b>
PO4	2.25	<b>1.32</b>
PO5	2.75	<b>1.61</b>
PO6	2.5	<b>1.47</b>
PO7	3	<b>1.76</b>
PO8	1.75	<b>1.03</b>
PO9	2	<b>1.17</b>
PO10	2.75	<b>1.61</b>



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### 21UCS2A2 - DISCRETE MATHEMATICS LEVEL I MAPPING OF CO - PO- PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	2	3	3	3	1	2	2
CO2	3	3	3	3	2	1	3	2	2	3
CO3	3	2	3	2	3	3	3	2	2	3
CO4	3	2	3	2	3	3	3	2	2	3
	12	9	12	9	11	10	12	7	8	11
Expected PO/PSO	3	2.25	3	2.25	2.75	2.5	3	1.75	2	2.75

### Result of PO Attainment 21UCS2A2 - DISCRETE MATHEMATICS

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
Expected	3	2.25	3	2.25	2.75	2.5	3	1.75	2	2.75
Attainment	1.76	1.32	1.76	1.32	1.61	1.47	1.76	1.03	1.17	1.61

