



Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

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

95th 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

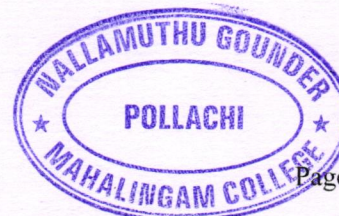
Batch: 2022-2024

| 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 |

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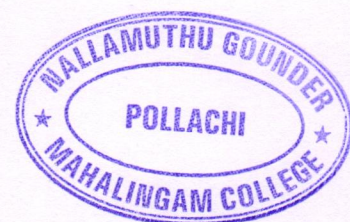
| | | | | | |
|--------|---------|----|-------------------------------|----|--------|
| LEVELS | LEVEL 3 | 60 | Percentage of Students to get | 60 | %Marks |
| | LEVEL 2 | 60 | Percentage of Students to get | 60 | %Marks |
| | LEVEL 1 | 60 | Percentage of Students to get | 60 | %Marks |

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 | 1.9 |
| CO2 | 60 | 40 | 9 | 22 | 100 | 100 | 3.0 |
| CO3 | 60 | 40 | 9 | 22 | 100 | 100 | 3.0 |
| CO4 | 60 | 40 | 9 | 22 | 100 | 100 | 3.0 |
| CO5 | 60 | 40 | 9 | 19 | 100 | 86 | 2.6 |

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


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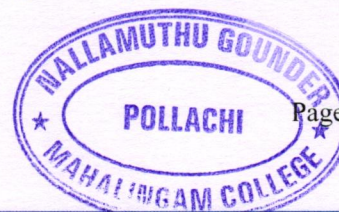


22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT

| | | [To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)] | | | | | |
|---|---|---|------|---------|------|------|----------------------|
| | | | Poor | Average | Good | | |
| Roll No. or | Name of Student | | 1 | 3 | 5 | | Signature of student |
| Reg. No. | | CO1 | CO2 | CO3 | CO4 | CO5 | (optional) |
| 22-PI-01 | Gowtham. M | 5 | 5 | 5 | 5 | 5 | |
| 22-PI-03 | Jagadeeshwaran. T | 5 | 5 | 5 | 5 | 5 | |
| 22-PI-04 | Kaviasaru. 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 | Yuvaree. 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% | |

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Computation of CO Overall Attainment

22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT

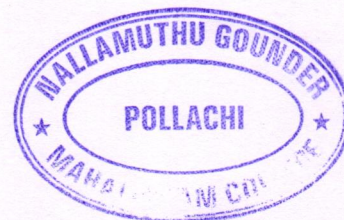
| CO | DIRECT CO ATTAINMENT LEVEL (DA) | INDIRECT CO ATTAINMENT LEVEL (IA) | OVERALL CO ATTAINMENT (0.8*DA+0.2IA) |
|-----------------------|--|--|--|
| CO1 | 1.9 | 3 | 2.12 |
| CO2 | 3 | 3 | 3.00 |
| CO3 | 3 | 3 | 3.00 |
| CO4 | 3 | 3 | 3.00 |
| CO5 | 2.6 | 3 | 2.68 |
| Average CO Attainment | | | 2.78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

Program Outcome (PO) Attainment

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

| PO | Attainment Level | PO Attainment |
|------|------------------|---------------|
| PO1 | 2.4 | 2.22 |
| PO2 | 2 | 1.85 |
| PO3 | 2 | 1.85 |
| PO4 | 2.4 | 2.22 |
| PO5 | 2 | 1.85 |
| PO6 | 2.2 | 2.04 |
| PO7 | 2 | 1.85 |
| PSO1 | 2.4 | 2.22 |
| PSO2 | 2 | 1.85 |

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

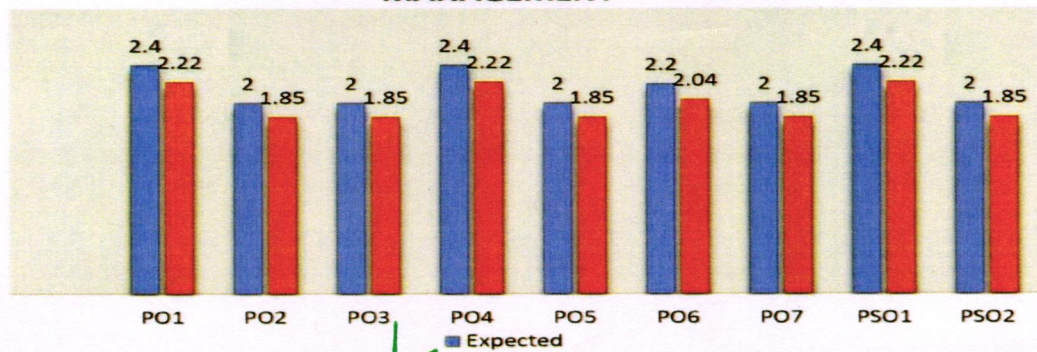
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PSO1 | PSO2 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|------|------|
| CO1 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 1 |
| CO2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 3 |
| CO3 | 3 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 1 |
| CO4 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 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

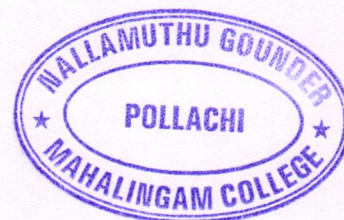
22PIB2E3 INTERNATIONAL SUPPLY CHAIN MANAGEMENT

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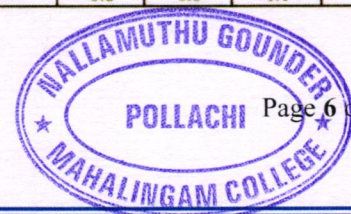
Programme: B.Sc Computer Science
Course Code: 21UCS2A2
Course Title: DISCRETE MATHEMATICS LEVEL-I
Semester: II
Batch: 2021-2024
Faculty Name: G. Angayarkanni

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

2.6.1 Sample Calculation of PO and CO Attainment

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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 |

37 6 35 27

| | | | | |
|------|-----|-----|-----|-----|
| 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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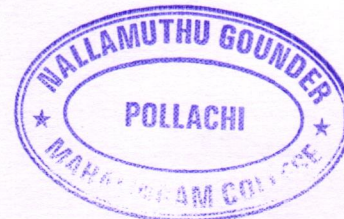


ATTAINMENT OF COs - 21UCS2A2 DISCRETE MATHEMATICS

| 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 | 1.9 |
| CO2 | 50 | 50 | 29 | 6 | 21 | 10 | 0.3 |
| CO3 | 50 | 50 | 29 | 35 | 100 | 60 | 1.8 |
| CO4 | 50 | 50 | 29 | 27 | 93 | 47 | 1.4 |

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

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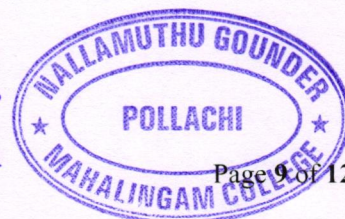


21UCS2A2 - DISCRETE MATHEMATICS

| 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 | 6 | 5 | | |
| 21-CE-37 | | 1 | 3 | 5 | 5 | | |

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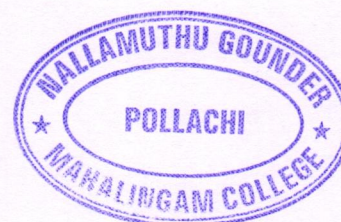
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| | | | | | | | |
|----------|------------------------------|-----------------------------|-----|------|------|--|--|
| 21-CE-38 | | 5 | 3 | 5 | 3 | | |
| 21-CE-39 | | 5 | 3 | 5 | 3 | | |
| 21-CE-40 | | 5 | 5 | 3 | 5 | | |
| 21-CE-41 | | 5 | 5 | 3 | 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

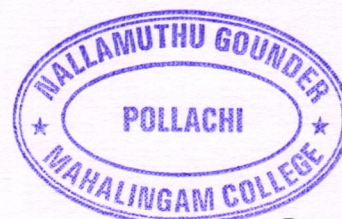
| CO | DIRECT CO ATTAINMENT LEVEL (DA) | INDIRECT CO ATTAINMENT LEVEL (IA) | OVERALL CO ATTAINMENT |
|-----------------------|--|--|--------------------------|
| CO1 | 1.9 | 2.64 | 2.11 |
| CO2 | 0.3 | 2.7 | 1.02 |
| CO3 | 1.8 | 2.79 | 2.08 |
| CO4 | 1.4 | 2.85 | 1.82 |
| Average CO Attainment | | |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

Program Outcome (PO) Attainment

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

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

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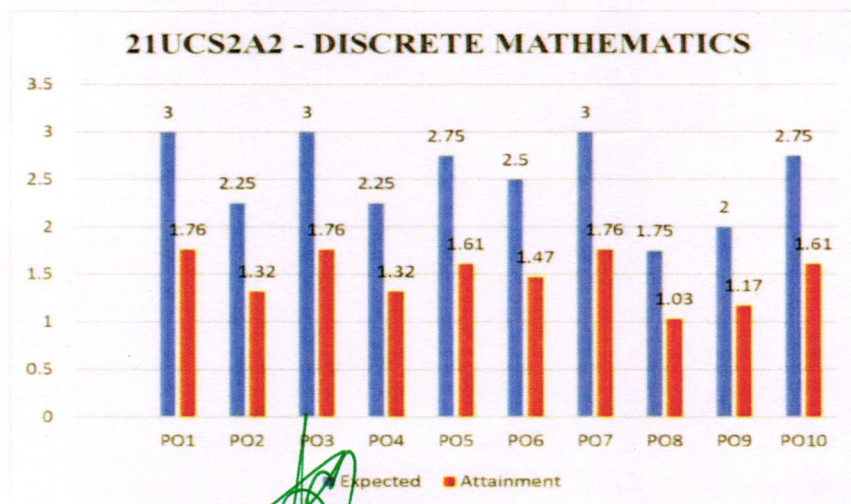


21UCS2A2 - DISCRETE MATHEMATICS LEVEL I MAPPING OF CO - PO- PSO

| | 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 |



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