**Course to Programme Outcome Mapping**

**Programme Outcomes PO’s:**

1. Ability to demonstrate knowledge of Computer science and its applications in order to enhance basic understanding of various software technologies.

2. Ability to analyse and identify various business and technical problems to further solve problems with effective communication.

3. Ability to adapt analytical, logical and managerial skills with the technical aspects in order to design and deploy reliable software programs and application for real world problems.

4. Ability to investigate complex problems and provide computer-based solutions.

5. Ability to understand and deliver ethical, social and cultural responsibilities in professional environment as an individual and team.

6. Ability to adapt new technologies for upgrading their skills and contributing to a lifelong learning.

7. Ability to create and manage multidisciplinary projects and successfully apply software and project management principles.

8. Ability to become employable in a variety of IT companies and government sector and also seek entrepreneurship opportunities for the betterment of an individual and society at large.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Courses / PO’s** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** |
| **Mathematics II** |  |  | **x** | **x** |  | **x** | **x** |
| **System Analysis and Design** | **x** | **x** | **x** | **x** |  |  | **x** |
| **Advanced Professional Communication** |  | **x** |  | **x** | **x** |  | **x** |
| **Computer Organization** | **x** |  | **x** | **x** |  | **x** | **x** |
| **Data Structure using C** | **x** |  | **x** | **x** |  | **x** | **x** |
| **Data Structure Lab** | **x** |  | **x** | **x** |  |  | **x** |
| **Computer Organization Lab** | **x** |  | **x** | **x** |  |  | **x** |

**CO Attainment Levels for various courses**

**I and II semester**

* Level-1: 40% students score more than class average
* Level-2: 50% students score more than class average
* Level-3: 60% students score more than class average

**III and IV Semester**

* Level-1: 40% students score more than class average
* Level-2: 50% students score more than class average
* Level-3: 60% students score more than class average

**V and VI Semester**

* Level-1: 50% students score more than class average
* Level-2: 60% students score more than class average
* Level-3: 70% students score more than class average

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| **Measuring Course Outcome Attainment**  **Level of course outcome attainment:**  i. Level-1: 40% students score more than class average  ii. Level-2: 50% students score more than class average  iii. Level-3: 60% students score more than class average | | | |
| **SCT2.1 Data Communication and Networking** | | | |
| **Sr no.** | **Name of the Student** | **External** | **Internal** |
| 1 | Sudharani | 47 | 8 |
| 2 | Chandrashekhara | 58 | 17 |
| 3 | Mahendra | 48 | 15 |
| 4 | Mahi | 51 | 16 |
| 5 | Ganesh | 0 | 18 |
| 6 | Sachin | 20 | 18 |
| 7 | Mahesh | 9 | 18 |
| 8 | Sudhakar | 28 | 18 |
| 9 | Sunita | 40 | 18 |
| 10 | Pooja | 54 | 18 |
| 11 | Mayuri | 55 | 18 |
| 12 | Ayesha | 39 | 18 |
| 13 | Hajra | 55 | 18 |
| 14 | Laxmi | 48 | 18 |
| 15 | Ashwini | 33 | 18 |
| 16 | Nagajyoti | 47 | 16 |
| 17 | Sarika | 43 | 18 |
| 18 | Neha | 51 | 18 |
| 19 | Saoumya | 32 | 18 |
| 20 | Ambika | 33 | 18 |
| 21 | Jyoti | 49 | 18 |
| Class Total | | 840 | 360 |
| Class Average | | 40 | 17 |
| The Average Marks in External Evaluation is 40  % of Student score more than 40 is 60% i.e. level 3  The Average marks in Internal Evaluation is 17  % of students score more than 17 is 80% i.e. level 3  A(CO) SCT2.1 Data Communication and Networking = 80 % (3) +20%(3)  = 2.4 + 0.6  = 3 | | | |
|
|
|
| Level of attainment set = 3 | | | |
| Level attained = 3 | | | |
| and Hence CO is fully attained for SCT2.1 Data Communication and Networking | | | |

**Identification of Slow and Advance Learners (30)**

**Identification of Advance and Slow learners**

1. Based on Qualifying marks

2. Marks obtained in First Internal Examination

3. Qualitative Performance in Classroom

**Programmes for Slow Learners**

1. Remedial Coaching

2. Providing Extra Books/ Notes

3. Personal Counselling

4. Solved Question Papers/ Question Bank

**Outcome Analysis**

**Programmes for Advance Learners**

1. Research Oriented Projects

2. Industrial Training/ Internships

3. Volunteer Opportunities in Event Organization

4. Class Representatives

5. Serving on Various Institutional Committees

6. Peer Teacher

7. To Form Subject Related Student Societies and Organize activities

**Teachers using ICT**

|  |  |  |
| --- | --- | --- |
| **Sr no.** | **Name of the staff** | **ICT tools used for Teaching** |
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**Possible ICT Tools:**

* Projector
* Camera
* Smart phone
* Social Media
* Video Conferencing Tools
* Institutional LMS
* Digital Microscope
* Video/Audio Resources
* Subject Related Specialized Hardware and Software Tools
* Language Laboratory
* NMEICT Resources such as: e-PG Pathshala/ NPTEL SWAYAM