**DEPARTMENT OF COMPUTER SCIENCE**

**Annual Report (2023-2024)**

Department of Computer Science came into existence with the introduction of Computer Science as one of the optional subjects at B.Sc. level in 1990-91 on demand from students and parents.

* Post graduate course in Computer Science leading to M.Sc. (C/S) was introduced during the session 1996-97.
* An AICTE recognized Two Years Master’s Degree Program “Master in Computer Applications” was introduced in 1997-98.
* A three-year UG course in Computer Science leading to B.C.A. was introduced during the session 2010-2011.
* Ph.D. Programmed in Computer Science started in the session 2014-15.

The students are continuously monitored for their academic as well as personality developments. In order to have a better interaction among students of the department and the staff, the Computer Science Society was formed in the session 1998-99. The Computer Science Society aims at arranging seminars, guest lecturers, group discussions, software development contests, student seminars etc.

Right from the inception of the Department of Computer Science, the university results are consistently excellent over the years for all the examinations. Every year students from department find places in the university merit list.

The consistent performance of the department in all respects, made it possible to get special funds under CPE for the vertical growth of the department.

**Departmental Activities:**

* Pre-PhD Seminar of Research Scholar Mrs. Neha Agrawal on 27/07/2023.
* Pre-PhD Seminar of Research Scholars Mrs. Pooja Dhade, Mrs. Swati Kadu Adekar, Mrs. Pooja Kavishwar, Mrs. Shubhangi Raipure on 11/08/2023.
* [**Teacher's Day celebration program on dated 05/09/2023.**](http://sscnagpur.ac.in/Department/Computer%20Science/Teacher_Day_Report.pdf)
* Guest Lecture on “Cyber Security” by Mr. Sandeep Kumar, Cisco Certified Network Trainer Network Bulls Pvt. Ltd, Gurgaon on 08th September 2023.
* Virtual Workshop on “Network Security & Ethical Hacking” by Mr. Sandeep Kumar, Cisco Certified Sandeep Kumar, Cisco Certified Network Trainer Network Bulls Pvt. Ltd, Gurgaon on 09/10/2023.
* PHD Entrance Examination on 21-22/11/2023.
* Six Month PhD-Progress Seminar of Research Scholars on 31/01/2024.
* PhD-Research Advisory Committee (RAC) Seminar of Research Scholars on 24/11/2023. Organized Guest Lecture on **“**Cyber awareness**”** by Dr. Navin M. Punjabi, Vice president, HR College of commerce & Economics, Mumbai, Member, Board of Governance, Member, Academic Council, HANC University, Mumbai. on 13.02.2024.
* Ph.D. Open Defense Viva-Voce seminar of Research Scholars Mrs. Shubhangi Raipure on 24/02/2024.
* Ph.D. Open Defense Viva-Voce seminar of Research Scholars Mrs. Swati Kadu Adekar on 18/03/2024.
* Ph.D. Open Defense Viva-Voce seminar of Research Scholars Mrs. Pooja Kavishwar on 23/03/2024.
* Ph.D. Open Defense Viva-Voce seminar of Research Scholars Mrs. Neha Agarwal on 08/04/2024.
* Seminars of M.Sc. **(Sem-IV)** were conducted on every Saturday. The topic of seminars was Cyber Security, Data Mining, Artificial Intelligent, Deep Learning, Neural Network and Sentiment Analysis.
* Seminars of M.Sc. (Sem-II) seminars were conducted on every Saturday. The topic of seminars were 3D Face Recognition on Android phone, Image Retrieval using Neural network, Face Recognition by Machine Learning, Facial expression recognition using Neural network.
* Seminars of **M.C.A.(Sem-IV)** were conducted on every Saturday. The topic of seminars were Support vector machine-based feature extraction for gender recognition, Deep fake video detection using neural network, Deep Learning based firewall management system, Regression analysis for machine learning.

**Students Achievement and Staff Achievement:**

**Result (Summer-2023 and Winter -2022):**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SN** | **Name of Course** | **%** |  | **SN** | **Name of Course** | **%** |  | **SN** | **Name of Course** | **%** |
| 1 | B.Sc. (Sem-I) | 53.77 | 7 | B.C.A. (Sem-I) | 70.40 | 13 | M.Sc. (Sem-I) | 46.15 |
| 2 | B.Sc. (Sem-II) | 60.60 | 8 | B.C.A. (Sem-II) | 59.10 | 14 | M.Sc. (Sem-II) | 68.42 |
| 3 | B.Sc. (Sem-III) | 70.96 | 9 | B.C.A. (Sem-III) | 74.30 | 15 | M.Sc. (Sem-III) | 47.61 |
| 4 | B.Sc. (Sem-IV) | 60.48 | 10 | B.C.A. (Sem-IV) | 68.51 | 16 | M.Sc. (Sem-IV) | 69.04 |
| 5 | B.Sc. (Sem-V) | 83.07 | 11 | B.C.A. (Sem-V) | 70.90 |  | 17 | M.C.A.(Sem-I) | 65.71 |
| 6 | B.Sc. (Sem-VI) | 83.00 | 12 | B.C.A. (Sem-VI) | 66.66 |  | 18 | M.C.A.(Sem-II) | 86.00 |
|  |  |  |  |  |  |  |  | 19 | M.C.A.(Sem-III) | 83.00 |
|  |  |  |  |  |  |  |  | 20 | M.C.A. (Sem-IV) | 100 |

**Merit Position in RTM Nagpur University Examination Summer -2023**

1. Bachelor of Computer Application (BCA)

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Name of Students** | **Marks obtained out of 3000** | **Merit Position** |
| 1. | Himdevi S. Thakre | 2694 | 1st |
| 2. | Minakshi D. Shiwankar | 2524 | 10th |

1. Master of Science (MSc. (Computer Science))

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Name of Students** | **CGPA out of 10** | **Merit Position** |
| 1 | Apurva A. Tiwari | 8.84 | 2nd |
| 2 | Vaishnavi S. Shivhare | 8.51 | 8th |
| 3 | Achal D. Ghagi | 8.40 | 10th |

1. Master of Computer Application (MCA)

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Name of Students** | **CGPA out of 10** | **Merit Position** |
| 1 | Swati H. Choudhari | 8.80 | 3rd |
| 2 | Bhushan N. Zalke | 8.77 | 4th |
| 3 | Ashwini A. Paradkar | 8.77 | 4th |
| 4 | Rashi S. Wasnik | 8.73 | 5th |
| 5 | Pooja R. Tale | 8.73 | 5th |
| 6 | Neha R. Kalaskar | 8.67 | 7th |
| 7 | Vaibhavi P. Kale | 8.67 | 7th |
| 8 | Gayatri M. Bukkawar | 8.60 | 9th |

**Research Activity:**

* The Teachers and Research scholars of the Computer Science department presented 18 research papers in National and International conferences and Journals.
* Number of Students registered and awarded for Ph.D. (RTMNU) course in computer Science.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Name of Supervisor** | **No of Students**  **Registered Ph.D.** | **No of Students**  **Submitted Ph. D** | **No of Students**  **Awarded Ph.D.** |
| 1 | Prof. M. P. Dhore. | 7 | - | - |
| 2 | Prof. S. R. Pande. | 1 | - | 2 |
| 3 | Prof. R. N. Jugele. | 4 | - | 3 |

**Staff Achievement: -**

* + Patent is granted on 14/02/2023 to Dr. Shilpa Gedam for an invention entitled “Photocatalytic Degradation of Mixture of Dyes using TIO2 Nanocrystalline Cooped with ZN and FE” by The Patent officer, Government of India.
  + Dr. Shilpa Gedam is a member of Edwin Group of Journal (Editorial Member) and has all privilege of membership from 21/12 2023.
  + Dr. Shilpa Gedam participated in Two-day International Symposium title “Empower Women Elevate the World” on 8-9/03/2024.
  + Dr. Varsha Pande has Life member of the Association of All Computer Science Teacher. Date of Membership Valid from 08/01/2024.
  + Dr. Varsha Pande has participated in online 10th Faculty Induction Program from 20/11/2023 to 19/12/2023.
  + Ms. Asfiya Shaikh has participated in online 10th Faculty Induction Program from 20/11/2023 to 19/12/2023.
  + Mrs. Swati Khandalkar qualified SET (Computer Science) Examination on 27/06/2023.
  + Mrs. Swati Khandalkar secure 1st position on National Conference on Emerging Trends in Computational Science and Technology held at Amravati.

**Any other matter:**

During the Session 2023-24 our students had the privilege to interact with industry person’s from

* Digitron Nagpur.
* TCS Nagpur.
* Pinnacle.
* HCL Nagpur.
* Swami Narayan School, Nagpur.

During the academic session 2023-24, 17 students of B.Sc./BCA/MCA/M.Sc. are placed in

on Campus / Off Campus Drives.

**Participation in NSS/NCC/Science Exhibition:**

* Students of B.Sc. /BCA/MCA/M.Sc. actively participated in the Blood Donation camp.
* Students of B.Sc. /BCA/MCA/M.Sc. actively participated in the NSS/NCC.

**(Dr. S. R. Pande)**

**Head Department of Computer Science**

**Science College, Congress Nagar, Nagpur.**