

DEPARTMENT OF COMPUTER SCIENCE

Annual Report (2025-26)

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 Three 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.
- **Implementation of National Education Policy (NEP-2020)**

Sr. No	Name of the course	Implemented from Academic Session
1	MSc.(Computer Science)	2023-24
2	BSc. (Computer Science)	2024-25
3	BCA(AICTE)	2024-25

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:

- ✓ Workshop on **UI/UX Design Domain** by Mr. Ishwar Giriya, CEO, IWORD Technology, Nagpur on 27/11/25.
- ✓ Workshop on **NEP-2020 on Discussion of Syllabus BCA(AICTE), RTMNU Nagpur** on held on 04/07/2025.
- ✓ Workshop on **NEP-2020 on Discussion of Syllabus B.sc(CS), RTMNU Nagpur** on held on 04/07/2025.
- ✓ Seminar on **"Cyber Security Awareness Program"** on Wednesday, 12th September 2025.
- ✓ **Memorandum of Understanding (MoU)** Signed between Shivaji Science College, Nagpur and Dhanwate National College, Nagpur on 19/11/2025.
- ✓ Workshop on **"Field Project"** as per **NEP-2020** held on 17th September 2025.
- ✓ **Teacher's Day** celebration program on 05/09/2025.
- ✓ A seminar on **"College Website Training Program"** was conducted by Dr. Manish Wanjari on 05/12/2025.
- ✓ **PhD-Research Advisory Committee (RAC)** Seminar of Research Scholars held on 30/07/2025.
- ✓ **Felicitation of Ms. Shalakha Saygaonkar**, for successfully qualifying the **(MH-SET)** Examination on 15/12/2025.
- ✓ Organized a **Seminar on "Career Pathways and Professional Growth"** by Mr. Sudhir U. Koche Director, Softtronix, Nagpur on 05/01/2026.
- ✓ **Six Month PhD-Progress Seminar** of Research Scholars on 10/01/2026
- ✓ A **Felicitation ceremony** was held to honor **Dr. J. K. Keche** for successfully organizing the **53rd Rajyastariya Balvaidnyanik Pradarshani 2025-26** on 17/02/2026".
- ✓ 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)** 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.

Result (Summer-2025 and Winter -2024):

SN	Name of Course	%	SN	Name of Course	%	SN	Name of Course	%
1	B.Sc. (Sem-I)	50.77	7	B.C.A. (Sem-I)	51.14	13	M.Sc. (Sem-I)	87.50
2	B.Sc. (Sem-II)	35.38	8	B.C.A. (Sem-II)	40	14	M.Sc. (Sem-II)	93.75
3	B.Sc. (Sem-III)	75.26	9	B.C.A. (Sem-III)	77.06	15	M.Sc. (Sem-III)	93.75
4	B.Sc. (Sem-IV)	75.26	10	B.C.A. (Sem-IV)	77.66	16	M.Sc. (Sem-IV)	93.08
5	B.Sc. (Sem-V)	100	11	B.C.A. (Sem-V)	90.09	17	M.C.A.(Sem-I)	72.44
6	B.Sc. (Sem-VI)	91.94	12	B.C.A. (Sem-VI)	77.66	18	M.C.A.(Sem-II)	97
						19	M.C.A.(Sem-III)	92.59
						20	M.C.A. (Sem-IV)	100

Research Activity:

- ✓ The Teachers and Research scholars of the Computer Science department presented 15 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	-	8
3	Prof. R. N. Jugele.	7	-	4

Student Achievement: -

- ✓ **Mr. Aditya Gupta** securing **1st Winner Position** in **Elocution Competition** On “Rashtriya Geete ani Samaj Jagrukta Organized under NSS unit on 17 October 2025 by Shivaji Science Education Society Amravati’s Science College Nagpur.
- ✓ **Mr. Aditya Gupta** Participate in **Poster Making Competition** “Organized on 17/11/2025 on theme “Constitution of India “to commemorate the Amrit Mahotsav (75th Anniversary of the Indian Constitution and to Promote awareness about the Constitution.

Staff Achievement: -

- ✓ **Prof. R. N. Jugele** Published Paper in **Springer Nature book series: Communications in Computer and Information Science** ((CCIS,volume 2490)) entitled with “Convolution Recurrent Neural Network Architecture for Firewall Anomaly Detection “.

- ✓ **Prof. R. N. Jugele** Published Paper in **IEEE Xplore**: entitled with “Optimizing Network Security: A CRNN Architecture for Firewall Anomaly Detection”.
- ✓ **Prof. R. N. Jugele** Published Paper in Peer-Reviewed Journals (International Journal of Modern Science and Research Technology) entitled with “AES-GCM Algorithm Implementation for the Protection of Online Shoppers Data in E-Commerce”.
- ✓ **Prof. R. N. Jugele** Published Paper in JOURNAL OF COMPUTER SCIENCE entitled with “An Adaptive Particle Swarm Optimization Algorithm with Exponential Control for Global Optimization”.
- ✓ **Prof. R. N. Jugele** Published Paper in Peer-Reviewed Journals) International Journal of Modern Science and Research Technology) entitled with “AES-GCM Algorithm Implementation for the Protection of Online Shoppers Data in E-Commerce”.
- ✓ **Ms. Asfiya Shaikh** Published Paper in **Springer Nature book series: Communications in Computer and Information Science** ((CCIS,volume 2490)) entitled with “Convolution Recurrent Neural Network Architecture for Firewall Anomaly Detection “.
- ✓ **Ms. Asfiya Shaikh** Published Paper in IEEE Xplore: entitled with “Optimizing Network Security: A CRNN Architecture for Firewall Anomaly Detection” on 01/08/2025.
- ✓ **Ms. Asfiya Shaikh** Participated in 12th International Conference on Emerging Trends in Engineering & Technology-Signal and Information Processing (ICETET-SIP) and present paper entitled with” Optimizing Network Security: A CRNN Architecture for Firewall Anomaly Detection” on 01/08/2025.
- ✓ **Dr. J. K. Keche**, has participated in the workshop on “Field Project” as per NEP-2020 held on 17th September 2025 at Department of Computer Science Shri Shivaji Science Education society Amravati’s Science College, Nagpur.
- ✓ **Dr. J. K. Keche**, has participated in online Refresher Course in “Artificial Intelligence Tools in Teaching and Learning” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 01/09/2025 to 13/09/2025.
- ✓ **Dr. J. K. Keche**, has participated in online Refresher Course in “Computer Science” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 04/08/2025 to 16/08s/2025.
- ✓ **Mr. Amol Bodkhe**, has participated in online Refresher Course in “Computer Science” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 04/08/2025 to 16/08/2025.
- ✓ **Dr. Shilpa Gedam**, has participated in online Refresher Course in “Computer Science” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 04/08/2025 to 16/08/2025.

- ✓ **Dr. Shilpa Gedam**, has participated in online Refresher Course in “Artificial Intelligence Tools in Teaching and Learning” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 01/09/2025 to 13/09/2025.
- ✓ Patent is granted on 29/09/2025 to **Dr. Shilpa Gedam** for an invention entitled “Photocatalytic Performance of Cu Doped ZnO Nanoparticle Photocatalyst for DYE Degradation” by The Patent officer, Government of India.
- ✓ **Dr. Shilpa Gedam** Published Paper in Scopus Index Journal-International Journal of Humanities Education ISSN:2327-0063(Print) Volume 13 No.1,2025: entitled with “The Impact of Digital Detox on Children’s Mental Well-Being: A Psychological Perspective” on July 2025.
- ✓ **Dr. Shilpa Gedam** Published Paper in **Scopus Nature book series**: Lecture Notes in Networks and System 1275, ISSN: 2367-3370 entitled with “Implementation of Multiclass Strategies for Support Vector Machine to Predict Self-Efficacy of Learner On 2025.
- ✓ **Dr. Shilpa Gedam** Published Paper in **Scopus Nature book series**: Lecture Notes in Networks and System 1275, ISSN: 2367-3370 entitled with “Implementation of Multiple Regression and Time Series Analysis for Measuring the Performance of Plant in Hydroponic Farming System using Rainwater on 2025.
- ✓ **Dr. Shilpa Gedam** delivered a Guest Lecture on Digital Wellbeing and AI” in SFS college Nagpur on September 2025.
- ✓ **Dr. Puja Dadhe**, has participated in online Refresher Course in “Computer Science” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 04/08/2025 to 16/08/2025.
- ✓ **Dr. Varsha Pande**, has participated in online Refresher Course in “Computer Science” from UGC -Malaviya Mission Teacher Training Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during 04/08/2025 to 16/08/2025.
- ✓ **Ms. Amruta Thakur** Published Paper in Peer-Reviewed Journals (International Journal of Modern Science and Research Technology) entitled with “AES-GCM Algorithm Implementation for the Protection of Online Shoppers Data in E-Commerce”.
- ✓ **Ms. Shalakra Saygaonkar** qualified SET (Computer Science) Examination on 30/08/2025.
- ✓ **All the Faculty members of Computer Science Department** has participated to record-breaking historic gathering with maximum participants singing the University Song in paying tribute to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
- ✓ **All the Faculty members of Computer Science Department** has participated in Nagpur Book Festival at Rashimbag Ground, Nagpur from 22/11/2025 To 30/11/2025.

Any other matter:

During the Session 2025-26 our students had the privilege to interact with industry person's from

- ✓ **IWORD Technology, Nagpur**
- ✓ **Persistent Nagpur**
- ✓ **Cognizant Tech Solution, Bangalore**
- ✓ **Coder Fuel InfoTech, IT park, Nagpur**
- ✓ **IBM Zensoft, Pune.**

During the academic session 2025-26, Total 20 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.



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