Shri Shivaji Education Society Amravati’s

**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

DEPARTMENT OF Computer Science

***INTERNAL ACADEMIC AUDIT***

**2021-2022**

1. Vision and Mission of the Department.

* To achieve academic excellence through education in computing with hands on practices using modern computing tools and create intellectual, professional manpower to explore the higher educational, research and social opportunities.
* To provide hands-on experience on design and programming technique, technologies and tools related to computer science with major focus on open source software tools and applications.
* To establish and nurture research culture and create global acceptance to the institution in the field of research and development using the government research scheme and consultancy for social and industrial applications.
* To enhance our reputation as a world-class teaching and research department which is recognized for its innovation, excellence and discovery, and attracts the best students and staff worldwide.

1. A. Faculty Strength:

|  |  |  |  |
| --- | --- | --- | --- |
| Faculty | Recruited | Vacant | Remarks |
| Regular (B.Sc.) | 05+01 | 01 | NIL |
| Regular (BCA) | 02 | 19 | NIL |
| Regular (M.Sc.) | 01 | 04 | NIL |
| Regular (MCA) | 02 | 02 | NIL |
| CHB | 04 | 00 | NIL |
| Adhoc(BCA) | 08 | NIL | NIL |
| Adhoc(M.Sc.) | 04 | NIL | NIL |
| Adhoc(MCA) | 01 | NIL | NIL |
| Non-teaching | 06 | NIL | NIL |

B. Faculty profile

B.Sc. Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| **Dr. M. P. Dhore** | Ph.D. | Professor and Principal | Pattern Recognition | 25 |
| **Dr. S.R. Pande** | Ph.D. | Professor and Head | Soft Computing | 31 |
| **Dr. R.N. Jugele** | Ph.D. | Professor | Multimedia, Programming Language & Cloud Computing | 26 |
| **Shri A.A.Halder** | Ph.D., NET | Assistant Professor | Pattern Recognition | 10 |
| **Dr. J. K. Keche** | Ph.D. | Assistant Professor | Pattern Recognition | 03 |
| **Dr. S. R. Gedam** | Ph.D. | Assistant Professor | Data Mining | 03 |

BCA Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| Dr. V. C. Pande | Ph.D. | Assistant Professor | Data Mining | 03 |
| Prof. P. M. Dadhe | M. Sc. NET. | Assistant Professor | NLP | 03 |

M.Sc. Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| **Dr. M. T. Wanjari** | Ph.D. | Assistant Professor | Pattern Recognition | 03 |

MCA Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| **Mr. A. A. Bodkhe** | MCA | Assistant Professor | Computer Application | 03 |
| Ms. A.S.S. Mukhtar | MCA | Assistant Professor | Computer Application | 03 |

1. Students Strength

A (Summer 2022)

|  |  |  |
| --- | --- | --- |
| Year | Group | Number of Students Admitted |
| B.Sc. Semester II | PCSM | 57 |
| SCSM | 43 |
| ECSM | 34 |
| Total | 134 |
|  |  |
| B.Sc. Semester IV | PCSM | 54 |
| SCSM | 46 |
| ECSM | 33 |
| Total | 123 |
|  |  |
| B.Sc. Semester VI | PCSM | 52 |
| SCSM | 32 |
| ECSM | 31 |
| Total | 115 |
|  |  |
| M.Sc. Sem II |  | **46** |
| M.Sc. IV |  | **44** |
| Ph.D. |  | **10** |
| Value Added Program |  | Nil |
| BCA Semester II |  | 111 |
| BCA Semester IV |  | 111 |
| BCA Semester VI |  | 107 |
| MCA Semester II |  | 35 |
| MCA Semester IV |  | 24 |
| MCA Semester VI |  | 03 |
|  | Total | 863 |
|  |  |  |

B (Winter 2021)

|  |  |  |
| --- | --- | --- |
| Year | Group | Number of Students Admitted |
| B.Sc. Semester I | PCSM | 57 |
| SCSM | 43 |
| ECSM | 34 |
| Total | 134 |
|  |  |
| B.Sc. Semester III | PCSM | 54 |
| SCSM | 46 |
| ECSM | 33 |
| Total | 123 |
|  |  |
| B.Sc. Semester V | PCSM | 52 |
| SCSM | 32 |
| ECSM | 31 |
| Total | 115 |
|  |  |
| M.Sc. Sem I |  | **47** |
| M.Sc. Sem III |  | **45** |
| Ph.D. |  | **10** |
| Value Added Program |  | Nil |
| BCA Semester I |  | 113 |
| BCA Semester III |  | 116 |
| BCA Semester V |  | 107 |
| MCA Semester I |  | 35 |
| MCA Semester III |  | 24 |
| MCA Semester V |  | 04 |
|  | Total | 873 |
|  |  |  |

1. Students Performance
2. Result Analysis (Winter 2021 ) UG & PG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Programme Code | Programme Name | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|  | B.Sc. | 115 | 115 | 100 |
|  | B.C.A. | 106 | 106 | 100 |
|  | M.Sc. | 45 | 45 | 100 |
|  | M.C.A. | 03 | 03 | 100 |

1. Result Analysis (Summer 2022 ) UG & PG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Programme Code | Programme Name | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|  | B.Sc. | 114 | 114 | 100 |
|  | B.C.A. | 107 | 106 | 98.00 |
|  | M.Sc. | 47 | 46 | 98.87 |
|  | M.C.A. | 03 | 03 | 100 |

C. Achievements (Medals/Awards/Prizes at University level)

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No. | Name of the Students | Class | Title |
| 01 | Ku. Urshala Darshan AroraSimranjeet Kaur Gurmeet Singh | BCA | 5th Merit |
| 02 | Ku. Tejaswini V. Hirudkar | M.Sc. | 3rd Merit |
| 03 | Ku. Mansi S. Hingle | M.Sc. | 4th Merit |

1. Students Progression:

|  |  |  |
| --- | --- | --- |
| Year | No. of students enrolling into higher Education | Program graduated from |
|  | UG to PG | (45 Students) from B.Sc. |
|  | PG to Research | Nil |
|  | Placement | 20 |
|  | On campus | 00 |
|  | Off campus | 20 |

* 1. Students’ publication in Extracurricular activity

|  |  |  |  |
| --- | --- | --- | --- |
| Title of the Paper | Name of Author | Title of journal | Year of publication |
| NIL | NIL | NIL | NIL |

* 1. Students’ Extension Activity

|  |  |  |
| --- | --- | --- |
| Sr. No. | Name of Student | Participation |
|  | NIL | NIL |
|  | NIL | NIL |

* 1. No. of Students pursuing higher course 80%
  2. Students’ participation in seminar 100%
  3. Students’ Learning course through-on-line -10%

1. Faculty
2. Research Paper Publications 06
3. Total Number of publications: - 06
4. International 06
5. National 00
6. Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation on as mentioned in the publication | Number of citations excluding self-citation |
| Hybrid Data Warehouse Development Method | Dr. S.R. Pande | International Journal of Scientific Research in Computer Science, Engineering and Information Technology | Oct. 2021  Vol. 7, Issue 5, pp.9-15  ISSN -2456-3307 | -- | Department of Computer Science SSESA’s Science College, Congress Nagar, Nagpur | -- |
| Deepfakes, a threat to society | Dr. S.R. Gedam | Journal of Scientific research in science & technology | Oct. 2021 | -- | -- | -- |
| Study of Physiological and Behavioral Biometric Authentication systems | Dr. Jageshwar K. Keche | World Journal of Engineering Research and Technology (WJERT) ISSN 2454-695X, pp.162-176 Vol.7 Issue4, | July 2021 | SJF Impact factor 5.924 | Department of Computer Science SSESA’s Science College, Congress Nagar, Nagpur | -- |
| Study of Physiological and Behavioral Biometric Authentication System | Dr. A.A. Halder | World Journal of Engineering Research and Technology (WJERT) | 17 June 2021 | -- | Yes | -- |
| Identifying Analytics of Sentiment Analysis on Twitter Data | Dr. R.N. Jugele | Gradiva Review Journal | Vol.8, Issue April 2022 | 6.1 | Yes | -- |
| Identifying Analysis of Sentiment Analysis on Twitter Data | Ms. Puja Dadhe | Gradiva Review Journal | Vol.8, Issue April 2022 | 6.1 | Yes | -- |

1. Faculty participation in conferences/seminar/workshop and symposia:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the Faculty | Title of Conference/ Seminar/ workshop Attended | Period | Level  International/ National/State /University /College | Whether Presented papers | Whether abstract /paper published in Souvenir/Abstract Book |
| Dr. A.A. Halder | National Level workshop on “Strategy to implement National Education Policy in Higher Educational Colleges”, | 28 June 2021 | G.H. Raisoni College of Engineering Nagpur | Yes |  |
| Dr. A.A. Halder | National webinar by RUSA, Maharashtra on “Nurturing Entrepreneurial Ecosystem in Undergraduate College”. | 9th July 2021 | National Level | Yes | -- |
| Dr. A.A. Halder | MS\_DEED Level 1 online workshop on introduction to innovative pedagogies for UG Teachers by Indian Institute of Science education and Research | 21 Dec. 2021 to 23 Dec. 2021 | National Level | Yes | -- |
| Dr. Mrs. S.R. Gedam | International e-conference on New Horizons and Multidisciplinary applications in Science and Technology ICMA 2021 | 11 Oct to 13 October 2021 | International | Yes | -- |

1. MoUs signed with institutions of national, international importance, other universities, industries, corporatehouses etc. during the year - Nil

|  |  |  |  |
| --- | --- | --- | --- |
| Date of MOU | Organization | Purpose/Activity | Student Participate under MOU |
|  |  |  |  |
|  |  |  |  |

1. Research funds sanctioned and received from various agencies, industry and other organizations - Nil

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nature of the Project | Duration | Name of funding Agency | Amount Sanctioned | Amount Received |
| Nil | Nil | Nil | Nil | Nil |

1. Books Published - Nil

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the Author | Book | | Book Edited |
| Title | ISBN and Date | Chapter |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. Research Guidance by Faculty during the year -

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the guide | Ph.D | | |
| Awarded | Submitted | Registered |
| Dr. M. P. Dhore | 01 | 01 | 04 |
| Dr. S. R. Pande | 01 | 00 | 03 |
| Dr. R. N. Jugele | 01 | 00 | 03 |

11. Alumni engagement-Nil

a. Contributes significantly to the development of the institution through financial and other supports.

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

b. alumni contribution during the year-Nil

1. Action Plan of the Department

1. To Conduct Placement Drive

2. To Conduct Workshop

3. To Conduct Seminar

4. To Conduct Guest Lecture

1. Best Practices of the department

* Encouraging students to take internship in various industries
* Student counseling both for personal and career guidance
* ICT based Teaching –Learning

1. SWOT Analysis

**Strength:**

1. Qualified & Competent staff.
2. Three Ph.D. supervisors.
3. Enthusiast and Encouraging Principal and Management.

4. Committed and obliging teaching & non teaching staff.

5. Well furnished Department with Six Air Conditioned Laboratories.

6. Secure environment for co-education.

7. Number of Groups are available with Computer Science as one of the subject at B.Sc. level and one three years full time BCA programme.

8. Two Post Graduate courses (M.Sc. and MCA).

9. Students managed Computer Science Subject Society

10. Identified Computer Science subject under CPE programme.

11. Parent Teachers interaction is encouraging and mentoring is practiced.

12. Internet and ICT facilities available.

13. Departmental Core library.

14. Recognition of the Department as a Research Laboratory.

**Weakness:**

1. Shortage of qualified faculty for PG courses.

2. Comparatively less employment opportunities for B.Sc. pass out students.

**Opportunity:**

1. ICT culture enhancement.

2. ICT training for masses.

**Challenges:**

1. Internship for PG students in Multi National Company’s.

2. Campus Placement at UG and PG level.



Date: 18/01/2023 Head

Department of Computer Science