Shri Shivaji Education Society Amravati’s

**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

DEPARTMENT OF Computer Science

***INTERNAL ACADEMIC AUDIT***

**2020-2021**

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) | 06 | NIL | NIL |
| Adhoc(M.Sc.) | 04 | NIL | NIL |
| Adhoc(MCA) | 00 | 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. | Principal | Pattern Recognition | 24 |
| **Dr. S.R. Pande**  | Ph.D.  | Associate Professor and Head | Soft Computing | 30 |
| **Dr. R.N. Jugele**  | Ph.D. | Associate Professor | Multimedia, Programming Language & Cloud Computing | 25 |
| **Shri A.A.Halder**  | Ph.D., NET | Assistant Professor | Pattern Recognition | 09 |
| **Dr. J. K. Keche** | Ph.D. | Assistant Professor | Pattern Recognition | 02 |
| **Dr. S. R. Gedam** | Ph.D. | Assistant Professor | Data Mining | 02 |

 BCA Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| Dr. V. C. Pande | Ph.D.  | Assistant Professor | Data Mining | 02 |
| Prof. P. M. Dadhe | M. Sc. NET. | Assistant Professor |  NLP | 02 |

M.Sc. Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| **Dr. M. T. Wanjari** | Ph.D. | Assistant Professor | Pattern Recognition | 02 |

 MCA Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| **Mr. A. M. Bodkhe** | MCA | Assistant Professor | Computer Application | 02 |
| Ms. A.S.S. Mukhtar  | MCA | Assistant Professor | Computer Application | 02 |

1. Students strength

A (Summer 2021)

|  |  |  |
| --- | --- | --- |
| Year | Group | Number of Students Admitted |
| B.Sc. Semester II | PCSM | 55 |
| SCSM | 45 |
| ECSM | 33 |
| Total | 133 |
|  |  |
| B.Sc. Semester IV | PCSM | 53 |
| SCSM | 32 |
| ECSM | 30 |
| Total | 115 |
|  |  |
| B.Sc. Semester VI | PCSM | 57 |
| SCSM | 41 |
| ECSM | 30 |
| Total | 128 |
|  |  |
| M.Sc. Sem II |  | **46** |
| M.Sc. IV |  | **33** |
| Ph.D. |  | **07** |
| Value Added Program |  | Nil |
| BCA Semester II |  | 114 |
| BCA Semester IV |  | 111 |
| BCA Semester VI |  | 19 |
| MCA Semester II |  | 24 |
| MCA Semester IV |  | 01 |
| MCA Semester VI |  | 17 |
|  | Total | 748 |
|  |  |  |

B (Winter 2020)

|  |  |  |
| --- | --- | --- |
| Year | Group | Number of Students Admitted |
| B.Sc. Semester I | PCSM | 55 |
| SCSM | 45 |
| ECSM | 33 |
| Total | 133 |
|  |  |
| B.Sc. Semester III | PCSM | 53 |
| SCSM | 32 |
| ECSM | 30 |
| Total | 115 |
|  |  |
| B.Sc. Semester V | PCSM | 57 |
| SCSM | 41 |
| ECSM | 30 |
| Total | 128 |
|  |  |
| M.Sc. Sem I |  | **46** |
| M.Sc. Sem III |  | **33** |
| Ph.D. |  | **07** |
| Value Added Program |  | Nil |
| BCA Semester I |  | 114 |
| BCA Semester III |  | 111 |
| BCA Semester V |  | 19 |
| MCA Semester I |  | 24 |
| MCA Semester III |  | 01 |
| MCA Semester V |  | 17 |
|  | Total | 748 |
|  |  |  |

1. Students Performance
2. Result Analysis (Winter 2020 ) 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. | 128 | 128 | 100 |
|  | B.C.A. | 19 | 19 | 100 |
|  | M.Sc. | 33 | 33 | 100 |
|  | M.C.A. | 17 | 17 | 100 |

1. Result Analysis (Summer 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. | 132 | 132 | 100 |
|  | B.C.A. | 19 | 19 | 100 |
|  | M.Sc. | 33 | 33 | 100 |
|  | M.C.A. | 17 | 17 | 100 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No. | Name of the Students  | Class | Title |
| 01 | Ku. Simranjeet Kaur Gurmeet Singh | BCA. | 1st Merit |
| 02 | Mr. Leeladhar Arvindkumar Banothe | BCA. | 4th Merit |
| 03 | Ku. Muskan Sushil Kamwani | BCA. | 5th Merit |
| 04 | Ku. Mrunali Sharad Bokade | BCA. | 6th Merit |
| 05 | Ku. Saroj Pradip Jangid | BCA. | 7th Merit |
| 06 | Ku. Nehal Manoj Chandraha | BCA. | 9th Merit |
| 07 | Ku. Krutika Suresh Raut | BCA. | 10th Merit |
| 08 | Ku. Leena Praful Chauhan | M.Sc. | 03rd Merit |

1. Students Progression:

|  |  |  |
| --- | --- | --- |
| Year | No. of students enrolling into higher Education | Program graduated from |
|  | UG to PG | (10 Students) from B.Sc. |
|  | PG to Research | Nil |
|  | Placement | 29 |
|  | On campus | 00 |
|  | Off campus | 29 |

* 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
5. National 06
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 as mentioned in the publication | Number of citations excluding self-citation |
| “Sentiment Analysis : Datamation in Python and Weka” | Puja M Dadhe R. N. Jugele | Infokara Research.An UGC-Approved group-2 Jounal | 2020 | 5.3 | Yes |  |
| Inspection of Retrospection - Challenges in Sentiment Analysis | Puja M Dadhe, R. N. Jugele. | Complaince Engineering JournalAn UGC-Approved group-2 Jounal | 2020 | 6.2 | Yes |  |
| Simulation Tool for Efficient Cloud Computing Applications : CloudSim | Shubhangee B. Raipure/ Mohod, R. N. Jugele. | Infokara Research.An UGC-Approved group-2 Jounal | 2020 | 5.3 | Yes |  |
| Cloud Computing Services: A Belief on Challenges Based on Multiple Attributes | Shubhangee B. Raipure/ Mohod, R. N. Jugele. | Complaince Engineering JournalAn UGC-Approved group-2 Jounal | 2020 | 6.2 | Yes |  |
| A Comperative Analysis of Reviewed Crypto-Steganographic Approaches | S. S. Hegde, S. R. Pande | Kalasarovar(UGC care Group-I journal) | Dec. 2020 | - | Yes |  |
| Study of Classificatoin Model Using Ensemble based and nonensemble based Mining techniques using Astronomical Data. | S. R. Gedam, R. A. Ingolikar, R. S. Gedam | Compliance Engineering Journal  | May 2020 | - | Yes |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the Faculty | Title of Conference/ Seminar/ workshop Attended | Period | LevelInternational/ National/State /University /College | Whether Presented papers | Whether abstract /paper published in Souvenir/Abstract Book  |
| Puja M Dadhe | **International Conference on Advances in Physical, Chemical & Mathematical Sciences-2020** | 3 days | RTMNU University | yes | yes |
| Shubhangee B. Raipure/ Mohod | **International Conference on Advances in Physical, Chemical & Mathematical Sciences-2020** | 3 days | RTMNU University | yes | yes |

1. Awards to Faculty members 01 (Awarded Ph. D. degree to Dr. A. A. Halder)

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 | 02 |
| 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 two Workshop

3. To Conduct two Seminar

4. To Conduct two 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. Interested and hardworking students.

6. Well furnished Department with Six Air Conditioned Laboratories.

7. Secure environment for co-education.

8. Democratic functioning respected.

9. No. of Groups are available with Computer Science as one of the subject at under

 graduate level and one three years full time BCA programme.

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

11. Students managed Computer Science Subject Society

12. Good results

13. Students seminars, Group Discussion, awareness programs- response by students is

 good.

14. Sophisticated instruments in the department.

15. Identified Computer Science subject under CPE programme.

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

17. Internet and ICT facilities available.

18. Orientation and Refresher courses done by teachers.

19. Departmental Core library.

20. 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.

3. Slow economics and industrial growth of Nagpur region.

 **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: 04/12/2021 Head

 Department of Computer Science