Shri Shivaji Education Society Amravati’s

**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

DEPARTMENT OF Computer Science

***INTERNAL ACADEMIC AUDIT***

**2019-2020**

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**  | M.Sc., 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. M. T. Wanjari** | Ph.D. | Assistant Professor | Pattern Recognition | 01 |
| Dr. V. C. Pande | Ph.D.  | Assistant Professor | Data Mining | 01 |
| Prof. P. M. Dadhe | M. Sc. NET. | Assistant Professor |  NLP | 01 |

 MCA Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Highest Qualification** | **Designation** | **Specialization** | **Teaching Experience** |
| **Mr. A. M. Bodkhe** | MCA | Assistant Professor | Computer Application | 01 |
| Ms. A.S.S. Mukhtar  | MCA | Assistant Professor | Computer Application | 01 |

1. Students strength

|  |  |  |
| --- | --- | --- |
| Year | Group | Number of Students Admitted |
| B.Sc. Semester I | PCsM,(M6,7) | 55 |
| SCsM,(M8,9) | 32 |
| ECsM(M10) | 30 |
| Total | **117** |
| B.Sc. Semester III | PCsM, (M6,7) | 44 |
| SCsM, (M8,9) | 32 |
| ECsM,(M10) | 23 |
| Total | **99** |
| B.Sc. Semeste V | PCsM, (M6,7) | 53 |
|  | PCCS, | 01 |
|  | SCSM,(M8,9) | 30 |
|  | ECSM, (M10) | 22 |
|  | Total | **106** |
| M.Sc. I |  | 35 |
| M.Sc. II |  | 37 |
| Ph.D |  | 07 |
| Value Added Program |  | Nil |
| BCA Semester I |  | 119 |
| BCA Semester III |  | 02 |
| BCA Semester V |  | 99 |
| MCA Semester I |  | 01 |
| MCA Semester III |  | 19 |
| MCA Semester V |  | 05 |
|  |  Total | **646** |

1. Students Performance
2. Result Analysis (Winter 2019 )

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Programme Code | Programme Name | Programme Specialization | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|  | B.Sc. | Computer Science | 102 | 90 | 88.23 |
|  | BCA | Computer Application | 97 | 83 | 85.56 |
|  | M.Sc.  | Computer Science | 37 | 36 | 97.29 |
|  | MCA | Computer Application | 5 | 5 | 100 |

Result of EVEN Semester is not available due to COVID-19

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

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No. | Name of the Students | Class | Title |
| 01 | Ku. Harshita Nirajkumar Agrawal | BCA. | 1st Merit |
| 02 | Ku. Neha Prashant Ghumre | BCA. | 3rd Merit |
| 03 | Ku. Juhi Vijayanand Ghate | M.Sc. | 2nd Merit |
| 04 | Mr. Ashish Laxman Agashe | M.Sc. | 4th Merit |
| 05 | Mr. Mukul Sushilkumar Dixit | M.Sc. | 5th Merit |

1. Students Progression:
	1. Students’ publication in Extracurricular activity - Nil
	2. Students’ Extension Activity - Nil
	3. No. of Students pursuing higher course – 70%
	4. Students’ participation in seminar - 100
	5. Students’ Learning course through online – 100
2. Faculty
3. Research Paper Publications
4. Total Number of publications: - 13
5. International 06
6. National 07
7. 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 |
| Quality Healthcare Prediction Using K-Means and Clara Partition Based Clustering Algorithm For Big Data Analytics | M. P. Dhore M.A. Chinchmalatpure | International Journal of Engineering and Advanced Technology, ISSN : 2249-8958(Online),Published by Eyes Intelligence Engineering & Sciences Publication | Feb- 2020 | 00 | No | 00 |
| Quality Healthcare Prediction using Decision Tree Algorithms For Big Data Analytics | M. P. Dhore M.A. Chinchmalatpure | Compliance Engineering Journal, ISO : 7021-2008 Certified Journal, ISSN NO:0898-3777 | Dec- 2019 | 00 | No | 00 |
| Implementation of Iris Recognition and Feature Extraction Technique Based on 2d DCT | S.R. PandeA.A. Halder | Journal of Emerging Technologies and Innovative Research (JETIR) ISSN (e): 2349-5162 | 2019 | 00 | Yes | 00 |
| A Review of Biometric System Based on Iris  | S.R. Pande, A.A. Halder | International Journal Research-Chronciler ISSN (e): 2347-503X | 2019 | 00 | Yes | 00 |
| A Review of Identity Recognition System Based on Biometrics  | S.R. Pande, A.A. Halder | International Journal of Scientific Research in Comp Science, Engg. and I. T. IJSRCSEIT ISSN (e): 2456-3307|  | Mar-2019 | 00 | Yes | 00 |
| Inspection of Retrospection - Challenges in Sentiment Analysis | R.N. JugeleP. M. Dadhe | Compliance Engineering Journal, IJCENG, [DOI : 16.10089. CEJ. 2020.V11 I1. 285311. 2870,](http://ijceng.com/gallery/cej-2637.18-f.pdf)ISSN NO:1934-7197, | 2020 | 00 | Yes | 00 |
| Cloud Computing Services : A Belief on Challenges Based on Multiple Attributes | R.N. JugeleS. B. Raipure | Compliance Engineering Journal, IJCENG , [DOI:16.10089.CEJ.2020.V11I1.285311.2877](http://ijceng.com/gallery/cej-2654.25-f.pdf).ISSN NO: 0898-3577, | 2020 | 00 | Yes | 00 |
| Aspect Oriented Programming Tools for .Net Framework | R.N. JugeleP. R. Sarode | International Journal of Computer Sciences and Engineering IJCSE. ISSN: 2347-2693(E), | Jan-2019 | 00 | Yes | 00 |
| Designing of RFID Enabled Smart Trolley and Applying Security Aspects by using Aspect Oriented Programming. | R.N. JugeleP. R. Sarode | Compliance Engineering Journal. ISSN NO: 0898-3577, | 2019 | 00 | Yes | 00 |
| Study of classification models using Ensemble based and non Ensemble based mining techniques using Astronomical data | S. R. GedamR. A. Ingolikar | Compliance Engineering JournalIF : 5.3 | May 2020 | 00 | No | 00 |
| Comparative Study of Symmetric Key Cryptographic Algorithms CAST, IDEA, RC, Camellia and SAFER | M. T. WanjariH. B. Pethe | International Journal Scientific Research in Computer Science, Engineering and Information Technology, (IJRSCEIT-2019), **ISSN: 2456 - 3307** | Mar 2019 | 00 | No | 00 |
| Role of Sentiment Analysis in Social Media | P.M. DadheR.N. Jugele | International Conference on Advances in Physical Chemical & Mathematical Sciences | Feb2020 | 00 | Yes | 00 |
| Inspection of Retrospection - Challenges in Sentiment Analysis | P.M. DadheR.N. Jugele | Compliance Engineering Journal.**ISSN: 1934-7197**IF: 5.3 | Jan2020 | 00 | Yes | 00 |

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  |
| M. P. Dhore  | Green Energy for Sustainable Development (ICGESD-2020) | Feb 2020 | International | Yes | Yes |
| M. P. Dhore | International Conference on Recent Trends in Image Processing and Pattern Recognition(RTIP2R,2020) | Jan-2020 | International | Yes | Yes |
| M. T. Wanjari | International Conference on Recent Trends in Image Processing and Pattern Recognition(RTIP2R,2020) | Jan-2020 | International | Yes | Yes |
| M.A. Chinchmalatpur | Green Energy for Sustainable Development (ICGESD-2020) | Feb 2020 | International | Yes | Yes |

1. Awards to Faculty members 01 (Awarded Ph. D. degree to Dr.S. R. Gedam)
2. 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 |
|  |  |  |  |
|  |  |  |  |

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 | 02 |
| Dr. S. R. Pande | 02 | 01 | 03 |
| Dr. R. N. Jugele | Nil | 01 | 03 |

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. Two 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.

10. Add-on course Web Technology.

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

12. Students managed Computer Science Subject Society

13. Good results

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

 good.

15. Sophisticated instruments in the department.

16. Identified Computer Science subject under CPE programme.

17. Parent Teachers interaction is encouraging. Mentoring is practiced.

18. Internet and ICT facilities available.

19. Orientation and Refresher courses done by teachers.

20. Departmental Core library.

21. Recognition of the Department as a Research Laboratory.

 **Weakness:**

1. Non availability of qualified faculty for PG courses.

2. Difficulties in filling the vacant posts at UG level.

3. Average students seek admission in B.Sc./M.Sc. Courses.

4. Less employment opportunities for B.Sc. pass out students.

5. Slow economics and industrial growth of Nagpur region.

 **Opportunity:**

 1. ICT culture enhancement.

 2. ICT training (HRD) for masses.

  **Challenges:**

1. Creating interest in students for B.Sc.

2. Attendance of students in Class Room.

3. Training the average students of B.Sc./M.Sc. Courses.

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

5. Campus Placement at UG and PG level

 

Date: 04/09/2020 Head

 Department of Computer Science