

ANNUAL REPORT



SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

SCIENCE COLLEGE PAUNI

DIST. BHANDARA. (M.S)

(Academic Year: 2018-19)

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1. Introduction

Bhandara is one of the important eastern districts in Maharashtra state, situated in the eastern part, adjoining to Nagpur and Gondia districts. The district has a mixed economy based on agriculture, small scale industries and the forest resources. The district is gifted by ample amount of dense forest cover and the water resources available in the form of rivers and lakes. The agro-climatic condition of the district is supportive for cultivation of various food grains and vegetable crops. Having abundant number of lakes in the populated area as well as in the forest, the district is also known as '*District of Lakes*'. Demographically, 19.48% of the population is residing in urban areas whereas, the major portion of the population is localized in small villages surrounded by forest area. The district encompasses seven talukas viz. Bhandara, Mohadi, Tumsar, Lakhani, Sakoli, Lakhandur and Pauni, which are segregated into four administrative sub-divisions, Bhandara, Tumsar, Sakoli and Pauni.

Pauni is one of the oldest semi-urban cities having historical background and with crowded number of temples, and is popularly known as 'Kashi of Vidarbha'. Pauni. Though major population of the area is belonging to economically lower-income group. The place has produced many intellectuals in the past, of which some have participated in the freedom movement of India. Around 35 years ago, in spite of having the facility for schooling education, there were no institutions offering graduation in science stream within the radius of 40 km. Few of the students, particularly girl students, stopped their education after passing the 12th standard examination due to the unavailability of institution of for graduation in science stream. Considering the need, Late Dr. Dadasaheb Kalmegh, then President, Shri Shivaji Education Society, Amravati, had taken initiative of providing science stream education at graduate level. The decision of Shri Shivaji Education Society Amravati was welcomed and supported by the philanthropists and the local government of Pauni and that resulted in the emergence of the first batch of graduation in science in the academic year 1988-89 from the institution named Science College Pauni. Initially, the college offered only B.Sc. in Mathematics, but in the subsequent year have started B.Sc. in Biology and later in the academic year 1997-98 started B.Sc. in Computer Science. The college has permanent affiliation with Rashtrasant Tukadoji Maharaj Nagpur University for all the courses run in grant-in-aid basis. The institution is under the 2(f) and 12(b) norms of UGC and have utilized more than 40 plus lakh grants from the UGC, New Delhi and other government organizations.

Every year, the students of the college ranked first in both Bhandara and Gondia districts and have been honoured by the medals and certificates. The students also added golden feathers in the cap of the college by securing highest marks in the individual subjects and occupying meritorious positions in the university examinations.

From the onset to the academic year 1997, the college was run its academic activities in the rented building, however, later in the year 1997-98, it was shifted to the new building constructed on the owned land. During the course of time the college witnessed exponential and phenomenal growth in all aspects of education. Now, the college is offering three-degree courses viz. B.Sc. (Biology), B. Sc. (Maths) and B. Sc. (Computer Science) with 400 plus strength of students. The core courses are supplemented by five skill-based certificate courses in Botany, Zoology, Chemistry and Library and Information Science. At moment, the college is having its own two storied building accommodating spacious classrooms, well-equipped science laboratories, administrative block, library, girls' common room, computer science laboratory, staff room, meeting room, seminar hall, ICT-enabled classrooms, spacious ground for games and sports events, gymnasium, vermicomposting facility, registered rich alumni association, active NSS unit, etc.

All the faculty members are actively engaged in research in different fields after acquiring their Ph.D. degree. The faculties have published huge number of research articles in reputed journals and also authored the text and reference books in different subjects. The college planned to offer post-graduation in few of the science subject and also decided to go for recognition of laboratories for active research in different subjects. Considering the social responsibility, the staff of the college has played very crucial and active role in organization of programmes and the activities benefiting the society. The awareness programme on sustainable development and agriculture through bee keeping initiated few years back has been transformed into a mass movement, has been appreciated by various government and non-government agencies throughout the country. The college is known for its excellence not only in its academic activities but also extension in society-oriented activities creating employability for youth of the area and benefiting the farmers for enhancing their agricultural income through organic farming and minimizing the pesticide application and synthetic fertilizers by providing sound platform for training on bee keeping practices and related aspects.

2. Administrative Affairs

The college is making continuous efforts to provide higher education to the students from socially and economically weaker section of nearby area. The college endeavours to provide academic, cultural and other support to the students, in particular and society in general. Academic peers, parents, guardians, alumni have appreciated the invaluable services rendered by the college. The college primarily aims at inculcation of moral and social values among the students. The college provide adequate infrastructure, teaching-learning facilities, library accommodating more than 6500 text and reference books, subscription of journals, magazines, periodicals and other study materials. The current infrastructure has two-storied building accommodating administrative block, ICT-enabled classrooms and well-equipped laboratories as well as open ground for games and sports events. The college organizes excursion and personality development programs for holistic

development of the students. The faculties of the institution also taking care of the students in guiding them to acquire higher education and for their career path through mentoring system and career guidance cell. The institution has worthy alumni network, of which few of them are holding appreciable positions in government and private sector.

The academic session 2018-19 was commenced from 15.06.2018 and ended on 30.04.2019. The university examinations for first and second term was scheduled between 15.06.2018 to 17.10.2018 and from 19.11.2018 to 30.04.2019, respectively with interval of winter vacation from 18.10.2018 to 17.11.2018.

2.1 Institutional efforts for infrastructural augmentation:

Any institution is recognized not only by the well-built infrastructure but also by the progressive approach exhibited during the course of time. All academic activities initially run-in rented building has now been carried through our own well-established infrastructure which has been augmented as per the need and feedback obtained from all the stakeholders. The institution renovated some of the earlier established laboratories during the academic year 2018-19 and has procured the apparatus and equipment in order to upgrade the laboratories. The infrastructural development has been carried out with the financial support rendered by the parent organization as well as the funds and other items generously donated by the alumni for the student-centric support system.

The safety and other measures employed by the institution and the acknowledgement of the own devised teaching-learning methodology, popularly known as 'Pawan Pattern' has resulted in the successive enhancement in the number of students. Consequently, to cope with the need of the increased strength of students the administration has planned to construct new building adjoining to the old infrastructure. Financial burden for the infrastructure augmentation has been shouldered by the parent organization and approved the budget estimate of sum of Rs. 1.5 cr. For the construction of two-storied block having seminar hall and classrooms at the ground floor and two classrooms along with Physics laboratory upstairs.

2.2 Financial Budget, Expenditure:

Budget allocation and expenditure for infrastructure augmentation for year 2018-19

Heads	Budget Allocation for Infrastructure (In INR)	Budget utilized for Infrastructure (In INR)
Fixture and fitting	50000	16732
Furniture	125000	17870
Software	0	111876
Office equipment	110000	37900
Gymkhana & Sports	30500	0
Botanical garden	10000	5480
College garden	5000	0
Maintenance of Building	30000	331399
Total Rs.	360500	521257

Academic Facilities Heads	Budget Allocation for Academic Facilities Maintenance	Budget Utilized for Academic Facilities Maintenance	Physical Facilities Heads	Budget Allocation\ for Physical Facilities Maintenance	Budget Utilization for Physical Facilities Maintenance
Audit fee	25000	38350	Maintenance of college building	30000	331399
Yearly affiliation fee	10000	5000	Current lab expenditure	120000	6209
Non-Agri. tax	40000	38740	Office equipment repair	10000	39342
Municipal Taxes	0	12756	Furniture and equipment repair	7000	0
ECA expenses	25000	53905	Telephone charges	15000	7133
Bank service charges	6000	4801	Electricity and Gas	55000	45740
Service charges	0	3155	KVI Honey bee Keeping	100000	0
study tour	0	12181	Labour charges	0	7050
Advertisement	25000	19892	UGC Grant Expenses	0	152955
Travelling allowances	30000	0			
Visiting expenditure	10000	0			
LMC expenditure	0	11305			
National Seminar of BBCE keeping	0	18264			
Other petty contingency	0	1910			
New course fee	0	96450			
Postage and telegram	0	500			
Stationery and printing	70000	36125			
Continuous Affiliation fee	10000	10000			
Legal fee	10000	0			
Transport exp.	5000	0			
Total Rs.	2,66,000	3,63,334	Total Rs.	3,37,000	5,89,828

2.3 Academics:

The vision to create distinct environment of the excellence in education has led the college to explore the process of curriculum enrichment and enhancement with the objectives of equipping the students with graduate attributes along with inculcating the right values and skills for their employability and wholesome living. The college explored the opportunities of academic flexibility in science for courses like B.Sc. (PCM), B.Sc. (CBZ), and B.Sc. (Computer Science),

The college has signed MoUs and linkages with various government and non-government agencies, for collaborating different academic and other activities. The institution has offered five skill-based certificate courses supplementing the core courses at undergraduate level. The institutionalization of these courses certainly aimed at generation of employment opportunities for the young minds. The institution has several activities imparting the human and ethical values and programs leading to the parity and gender sensitization as well as creating environmental consciousness among the students.

Academic activities of the institution in 2018-19 have been shouldered by 11 regular faculties in different subjects, however, to avoid the academic loss of the students, the institution has appointed 20 eligible candidates on clock hour basis. Two of the regular faculty members have been promoted from Assistant to Associate professor under career advancement scheme. The regular and axillary teaching staff has continuously worked for the betterment of the students by conducting the remedial classes/tutorial sessions and mentoring the students for the improvement in their academic performance.

Four faculty members are engaged in active research by guiding the research students in capacity of recognized supervisor. The academic session commenced on the scheduled time as per the guidelines obtained from the affiliating university. Committees constituted/restructured have organized the meetings at the onset of the academic session for the preparation of timetable, distribution of workload and other departmental activities to be performed. Every effort was taken by the faculties for the completion of curriculum in due time. Blended teaching method with conventional teaching and use of ICT-tools has been used by the faculty members. The students were kept under continuous assessment process by conducting the unit tests/surprise tests, group discussion, organization of classroom seminars and college terminal examination towards the end of academic session.

3. Departmental Activities:

3.1 Academic:

Department of Chemistry

Academic and Professional Development Activities:

The department has two regularly appointed teaching faculties namely Dr. B. D. Gharde and Mr. A. B. Sahare. One of the faculty members, Dr B. D. Gharde have acquired Ph.D. degree whereas, the other is working for pursuing the Ph.D. Both the teaching faculties have excellent academic records in terms of publication of research papers in the journals of national and international reposes.

The students were appropriately placed in various decision-making committees and bodies at the departmental level. Departmental activities were conducted either in collaboration with the other institution or intra-department within the institution. The activities carried out by the faculties of the department are as follows:

1. Paper Presentation:

- Department has been credited by the presentation of two research papers in the national and international level conferences organized by other institutions.
- In all 06 research articles have been published by the regular faculty members in the department.

2. **Extension activities:** department have also completed Minor Research Projects (MRP) funded by UGC.

3. The department has workload of 6 regular teachers; however, the institution has failed to recruit the regular faculties owing to the unwarranted ban on recruitment imposed by the state government.

4. The department has been provided with two clock hour basis appointed teachers. Dr. S. P. Mote and Mr. A. S. Kalbandhe has been appointed through proper process as per the guidelines of UGC and affiliating university.

5. The department has one regular laboratory attendant Mr. R. H. Gadborikar, serving as a supporting staff to the department.

6. Every year department of Chemistry organizes various curricular, co-curricular and participated in extension activities. During the academic year 2018-19 different activities organized by the department.

Department of Botany

Academic:

The department has two regularly appointed teaching faculties namely Dr. Avinash K. Aney and Dr. Sanjay I. Ghugal. Both the teaching faculties have acquired Ph.D. degree and have excellent academic records in terms of publication of research papers in the journals of national and international reposes.

- Faculties in the department have been credited by the publication of two research papers during 2018-19.

- Faculties in the department attended national and international conferences organized by other institution
- Dr. Avinash K. Aney has been elected in Board of Studies in Botany; in RTM Nagpur University, Nagpur for the tenure of five years. He is also an elected member of Board of Examination in BOS Botany, under the article 48 (3) (C).
- The teaching faculties of the department have actively participated in various curricular and co-curricular activities.
- Considering the enhanced strength of the students in the subject, the department has workload of in all 4 regular teachers; however, to avoid the academic loss of the students, the college administration had appointed three teaching faculties on clock hour basis (CHB). Unfortunately, the department has been performing all its activities without the regular appointment of the laboratory attendant from 2009 onward.
- In capacity of member of Board of examination, he worked on the moderation committee of paper settings. Dr. Avinash K. Aney has been also given a responsibility as coordinator of IQAC of the college.
- He has worked as member of sub-committee constituted for the curriculum design and modification. He worked in the committee and prepared the new syllabus of Botany as per the guidelines of UGC and RTM Nagpur University, Nagpur.

Department of Zoology

The department has two regularly appointed teaching faculties namely Dr. Kishor B. Nagarnaik and Dr. Bhuwanendra S. Rahile. Both the teaching faculties have acquired Ph.D. degree and have excellent academic records in terms of publication of research papers in the journals of national and international repute.

- Faculties in the department have been credited by the publication of 05 research papers and one book during 2018-19.
- Faculties of the department are approved for Ph D Supervisors of RTM Nagpur University Nagpur.
- Under supervision of Dr. B. S. Rahile, two students are registered for Ph. D. degree in RTM Nagpur University Nagpur.
- Both the faculties have been promoted to Associate Professor under CAS. The teaching faculties of the department have actively participated in various curricular and co-curricular activities.

- The department has extended workload since the strength of the students has enhanced.
- One qualified candidate appointed as CHB while one nonqualified candidate was appointed as CHB due to non-availability of qualified candidate.
- The department has been performing all its laboratory activities with the regular appointment of the laboratory attendant.

Department of Physics

Academic:

The department has two regularly appointed teaching faculties namely Mr. S. B. Bankar and Mr. D.R Barapatre. Mr. S. B. Bankar, Associate Professor has responsibility of Head of department. He has been pursuing the Ph. D. in RTM Nagpur University since July 2017.

- Faculties in the department have been credited by the publication of 01 research papers and during 2018-19.
- Mr. D.R Barapatre is Assistant Professor with good academic record. He has additional responsibility as an assistant NSS co-ordinator
- Due to extra workload, the institute has appointed Mr. M.G. Karihar, Mr. M. C. Warambe as assistant professor on C.H.B basis.
- Prof. S.B. Bankar is secretary of the Staff Council of the College. He maintained and updates the staff council register including agenda and report of staff Council meeting time to time.

Department of Computer Science

Academic:

The department has two CHB teaching faculties namely Dr. Krishna Karoo and Ms. Bhavna Raghute. The department has one laboratory attendant Mr. Nikhil Nirwan serving as a supporting staff to the department. Every year department of Computer Science organizes various curricular, co-curricular and participated in extension activities.

- Faculties in the department have been credited by the publication of 02 research papers during 2018-19.
- Faculties in the department actively participated in national, international conferences and workshops organized by other institution

Department of Mathematics:

Academic:

The department has one regularly appointed teaching faculties namely Dr. Vijay V. Lapse and two CHB lecturers namely Ms. S. W. Telmasare and Ms. R. G. Dubey. The department has actively participated in various curricular and co-curricular activities.

- Faculties in the department have been credited by the publication of 01 research papers during 2018-19.
- The department has actively participated in various curricular and co-curricular activities.

3.2 Curricular activities:

All the teaching faculties of the various departments have focused to complete the major part of the theory and practical in due course of time, quite in advance of the commencement of the University examinations. The departments had prepared the teaching plan in advance and try to complete the major portion of teaching in stipulated time. The students of all the semesters were provided with self-prepared notes on various topics. Various curricular activities organized by all the departments are summarized below:

- **Teaching method:** Apart from classroom teaching, all departments created the semester-wise Whatsapp group for ease of circulation of notices, notes, question bank and other relevant information among the students. The regular faculties of the department have prepared their own printed notes and that was circulated among students to prevent the time. The traditional blackboard method was supported by the advance method of delivering lectures with the help of well-prepared power point presentations (PPTs). The students were allowed to interact with the teachers so as resolve their queries regarding the topics earlier taught. The protocols and the entire methodology of scheduled practical were well demonstrated to the students by the concerned teachers, before conducting the practical. During practical hours, the students were given the sort of questions that could be asked in viva at the time of annual practical examination. The advanced and slow learners were identified based on the class tests, performance in the classroom and their overall activities. The slow learners were taken in confidence and tutored separately by solving their problems.
- **Unit Test:** The university prescribed syllabus is distributed into 4 units. They follow the method of conducting regular unit test after the completion of each unit. The answer sheets submitted by the students were evaluated by the concerned teachers and the students were guided for writing the correct and specific answers. The record of each unit test is maintained with the departments.
- **Student's Seminar and home Assignments:** The topics from the curriculum were allotted to the students for the preparation of home assignments and also to deliver a seminar on the prepared topic. The department has focused on the participatory teaching-learning activities

by involving the students in different academic and co-curricular activities. The students delivered the seminars on the assigned topics before entire class and the teaching faculties of the department. Healthy and free atmosphere were created for the open discussion on the topics. The teachers of the department have guided the students for the effective presentation and delivery of the topics. Student's home assignments were checked by the concerned faculty and returned to them with specific remarks and corrections

- **Group Discussion:** The departments have organized healthy practice for involvement of the students in putting their own opinions on various topics of the subjects. The entire students were made aware in advance regarding the group discussion activity and motivated to take part actively. On the day of group discussion, the entire students were divided into different groups with the inclusion of at least 10 students per group. The group members were asked to nominate their group leader and each group was given a specific topic from the syllabus. The groups were given maximum of 20-minute time to discuss the topic and enlist their opinion. Finally, the group leaders were asked to elaborate the points discussed by their group member, after gathering in the classroom. Final remarks with constructive suggestions were given by the faculty members.
- **Student's project:** As per the list of the students provided by IQAC of the college, the department has completed and submitted per faculty field-based projects. The students and the concerned supervisor had onsite visits and conducted the survey and collected the data. Based on the collected data, the supervisor has compiled the project with the help of team of students working under the supervisor.
- **Remedial coaching classes:** All the departments have successfully conducted the remedial classes for the failure and slow learner students. The schedule of remedial coaching classes was prepared as per the notification received from IQAC. The workload of both the papers in was distributed among three permanent faculties of department. The identified students were notified regarding the provision of remedial classes and were encouraged to get benefit for the enhancement in academic performance. Initially, the faculty members interacted with the students for the problems associated with subject understanding and the answering the questions in university examination. The students were given simple tips for improving the writing skill and setting the regular study pattern. Departmental remedial classes were scheduled as given by IQAC for students B.Sc. Part-I. The organization of such classes was found to be fruitful in improvement of the academic performance of the students in university examination.
 - i. The Department of Chemistry scheduled the remedial classes for 48 students of B.Sc. I year between 15th February to 2nd March, 2019.

ii. The Department of Physics were scheduled remedial classes between 21th January to 11th February 2019 for selected 23 students.

iii. The Department of Zoology scheduled the remedial classes in the month of January and February 2019. 19 students were conducted by regular faculties of the department to improve the performance of students in theory examination of B Sc Semester I.

iv. The Department of computer science were scheduled remedial classes from 09th February to 9th March, 2019 for 14 students of B.Sc. Part-I who participated in remedial coaching. The organization of such classes was found to be fruitful in improvement of the academic performance of the students.

- **Excursion Tour:** We are associated with nature and its creation. In order to get more practical knowledge to the students we have taken the students outside in the nearby area of the college to make the students aware about the natural habitat, geographical location, types of forests, soil structure, etc. It was also aimed to observe and study biodiversity and impact of environment on the vegetation. We have collected few of the Cynobacterial, Algal, Bryophytic members and aquatic Pteridophytes from the ponds available in the vicinity. The collection of various plant material was used for regular practical and that helped us to save quantum of expenditure of the college against the purchase of study material. **Dept. of Botany and Zoology** have jointly organized Excursion Tour on dated 7th Sept. 2018 at Tasar Silkworm Rearing and Grainage Centre Davadipar(CSB Bhandara) and Ravanvadi Lake for botanical excursion study. Total 46 students of B Sc Third and Fifth Semester and four teachers have participated in tour.
- **Skill based short term course:** The department of Zoology has initiated skill based short term course of three months duration, entitled “**Certificate Course in Apiculture**” and “**Certificate Course in Sericulture**” approved from Department of Life Long Learning and Extension of the affiliating university. Total 24 students enrolled for ‘Certificate Course in Apiculture’ and 13 students for ‘Certificate Course in Sericulture’.
- **Result analysis:** All the department of Science College Pauni analysed the result of concerned subject after the declaration of result by the university. The result analysis of odd semester examinations was performed while because late commencement of even semester examination, the result analysis of even semester cannot be available in report.

3.3 Extra-Curricular (including extension, outreach activities):

All the teaching faculties of the various departments not only focused on curricular activities but also involved the students in co-curricular activities. The co-curricular activities have been organized by the various departments as follows:

Department of Chemistry

The teaching faculties of the department also involved the students in co-curricular activities. The different co-curricular activities organized by the department are:

1. The department of Chemistry has organized inaugural function of Chemical Society (2018-19) on 31st July, 2019. An executive body of 18 students on different portfolio was formed for the academic session 2018-19 with the consent of each student member having chemistry subject

2. Poster Competition: The department of chemistry has supported the institution with full of capacity during Annual Social Gathering (2018-19). Prof. A. B. Sahare has coordinated Poster Competition on theme “Beti Bachao Beti Padhao” as well as actively participated in games and sports activities.



3. The chemistry department also organized One Day Workshop on ‘Green Chemistry and Plastic Pollution’ on 21st January, 2019. The resource person was Dr. S. B. Ghose, Prof. of Chemistry and Ex. Director, Laxminarayan Institute of Technology, R.T.M. Nagpur University, Nagpur. The workshop was open for all. Apart from students of our college, the students of Dr. L. D. Balkhande College of Arts and Commerce, Pauni also get benefited of the workshop.



4. In the capacity of members of Women Redressal Cell Dr. B D Gharde organized following events,

- a. Awareness programme for women safety and respect.
- b. Seminar on Gender sensitization
- c. HIV-A silent Killer
- d. Women Education in India
- e. Poster Competition (theme-Beti Bachao Beti Padhao)
- f. Essay competition (Theme: Empowered women makes empowered society)
- g. Women Empowerment.

Department of Botany: The teaching faculties of the department also involved the students in co-curricular activities. The different co-curricular activities organized by the department are:

1. Tree plantation: The teaching faculty and the students of the department have actively participated in Maharashtra government tree plantation programme, organized in the college premises. The tree plantation programme at the Taluka level was initiated from the college and it was addressed by Hon'ble Chandrashekhar Bawankule, guardian minister of Bhandara district and Minister of Department of Energy, government of Maharashtra. About 200 tree and fruit bearing plants were planted in college premises as well as on road sides.

2.Cultural Programme: Dr. Avinash K. Aney, Head, Department of Botany has successfully shouldered the responsibility of organization of Student's social gathering, in capacity of Convener of the organizing committee. The three days students gathering were well planned and executed by Dr. A. K. Aney with the support of entire teaching and non-teaching staff of the college. He, himself conducted the general knowledge quiz competition, Antakshari and compiled the inaugural function of the ceremony.

Department of Zoology:

1. Guest lecture: the department of Zoology organized two Guest lectures for the students of all the available courses; subject- 1) “Impact of climate change on Fish Reproduction and Biodiversity of Insect Pollinator”, 2) ‘Basics in Bioinformatics’. Majority of the students and faculty members were actively participated in the above-mentioned talk.

2. On the occasion of World Honey Bee Day on 20th May 2018, One Day National Seminar on “Beekeeping” was organized by the Khadi and Village Industries Commission, Divisional Office, Nagpur in collaboration with in Centre for Sericulture and Biological Pest Management Research (CSBR), RTM Nagpur University, Nagpur, Science College, Pauni, Dist. Bhandara and Tai Golwalkar Mahavidyalaya, Ramtek.

Department of Physics

1. Tree plantation: The teaching faculty and the students of the department have actively participated in Maharashtra government tree plantation programme, organized in the college premises.

2. Cultural Programme: The teaching staff and students were actively participated in different programmes, competitions the cultural and sports activities organized by college on the occasion of National Science Day, Birth anniversary of Dr. Panjabrao alias Bhausaheb Deshmukh, founder President of parent organization ‘Shri Shivaji Education Society Amravati’. Prof. D.R. Barapatre has leading role in organization of cultural programs and co-curricular activities as a part of NSS.

3. Cleanliness Drive: The teaching faculty and the students of the department have actively participated in cleanliness drive organized in the college on the occasion of Mahatma Gandhi Birth Anniversary on 2nd October, 2018.

4. Savitribai Phule Birth Anniversary: Prof. S.B. Bankar worked as a convener of Women Redressal Cell and organized program on the occasion of late Savitribai Phule Birth Anniversary on 4th January, 2019.

5. National Science Day: The students and teaching faculty of the department actively participated in different program organized in National Science Day on 28th February, 2019.

Department of Mathematics:

1. Tree plantation: The teaching faculty and the students of the department have actively participated in Maharashtra government tree plantation programme, organized in the college premises. The tree plantation programme at the Taluka level was initiated from the college and it was addressed by Shri Chandrashekhar Bawankule, Guardian Minister, Bhandara district and Minister of Department of Energy, Government of Maharashtra. About 200 tree and fruit bearing plants were planted in college premises as well as on road sides.

2. Cultural Programme: Dr. V. V. Lapse, Head, Department of Mathematics has successfully shouldered the responsibility of organization of Student's cultural activities, in capacity of Convener of the organizing committee.

3. Departmental Activities: The Department of Mathematics, Science College Pauni conducted a one-day state level workshop on 6th March 2019 on "Development in Mathematics curriculum". This program aims to introduce the participants about the mathematics curriculum and upcoming developments in mathematics curriculum. The program is divided into three sessions. In first session, Hon. Dr. KC Deshmukh Ex. Dean, Science & Technology, RTMNU, Nagpur was present as the chairman of the event, Hon. Dr. Lalsingh Khalasa, principal, Mahatma Gandhi science college, Armori was present as Chief Guest of the event. In the second session, invited talks of Hon. Dr. M.S. Borkar, professor, Department of mathematics, RTMNU Nagpur and Hon. Dr. G.D. Kedar Professor, Department of Mathematics, RTMNU, Nagpur were held to justify the event. In the third session, paper presentation was taken from the students and Dr. A.B. Buradakar, Principal, Nutan Adarsh Mahavidyalaya, Umred was present as the chairman of the event, Hon. Dr. S.P. Pawar Associate professor, S. N. Mor Science College, Tumsar was present as Chief Guest of the event. Dr. V. V. Lapse, Head, Department of Mathematics had successfully shouldered the responsibility of program

Department of Computer Science

The teaching faculties of the department also involved the students in co-curricular activities. The different co-curricular activities organized by the department are:

1. Inauguration of Computer science Society: The department of Computer Science has organized inaugural function of Computer science society-2018-19, on **25st July, 2019**. Executive body of 20 students on different portfolio was formed for the academic session 2018-19 with the consent of each student member having computer subject.

2. As per the decision of IQAC regarding the organization of skill and professional development program the department of computer science has organized two workshops on search engine for the faculties of science college Pauni on dated 14 July 2018 in the meeting hall. The other workshop for the teaching and non-teaching faculty members on dated 02 August, 2018. 20 participants have been actively participated in the workshop.

3. The department of computer science has organized one-day training program for the teaching faculties on "Online Software" as well as for the non-teaching members on "Tally". Majority of the teaching and non-teaching members were actively participated in this training program.

4. Department of Library Science and Information:

The basic function of any library is to work in accordance with the parent organization. The central library, located in the old block renders various library services to the students, and staff members.

Resources:

The library has an extensive collection of books covering all aspects of science and also related areas like social sciences, humanities, general reading, etc. Reference collection of library consists of reference books, technical data books, encyclopaedias, dictionaries, directories, atlases, Indian standards, syllabus, question papers archive, CD-ROMs etc. The periodical section is a vital source for academic research and up-to-date information. Newspapers and Journals both national are made available for reference.

Resources	Available
Book	Last Accession- 6489
Journal	02
News Papers	04
CD's	10

E-Resources Databases

E-Resources	Link
SCIENCE DIRECT	http://www.sciencedirect.com
NPTEL	https://ndl.iitkgp.ac.in/
Rare books of India	https://rarebooksocietyofindia.org/

OPAC search: Books can be searched by author, title, keyword, publisher & subject, books can be reserved, current book transaction status can be checked, etc.

NPTEL videos: Video lectures given by science faculties are made available through Intranet. These help to enhance the quality of engineering education. Students are also allowed to surf the net, check mails, etc. at the Digital Library Centre. Stock verification and Withdrawal process: Periodic stock verification and withdrawal process helps in replacing relevant, useful and in demand books with new copies whenever lost or mutilated. Stock verification: Depending upon the size of the library, stock verification periodicity is decided. Library takes a stock of books and other material every Five year. stock verification will be conducted in the month of May 2019 during college vacation.

Library Services:

User Awareness/Library Orientation: The library orientation programme is organized by the college for the benefit of new students in the beginning of academic year. Students are informed and trained to identify resources, evaluate them and use the resources more effectively and ethically.

Search for Resources: OPAC The library catalogue lists the books, bound volumes, Standards, book bank books, CDs, DVDs available in all the libraries through the library software Libman.

Circulation/Home lending: Student members will be issued Library card, which will remain in force for the duration of the study year and shall not be transferable. Students are allowed to issue books using this card, and there also exists the process of self-renewal and reservation of a book. Reminders are also sent before the book becomes overdue, in case of reservations.

Book Bank: The book bank facility is made available for the students. Students are required to deposit of the total cost of the books. From SC/ST students reading fees is not collected, and the whole deposited amount is refunded. Students can borrow maximum 10 books of their choice from the Book Bank.

Membership: National Digital Library Ministry of Human Resource Development under its National Mission on Education through Information and Communication Technology has initiated the National Digital Library (NDL) pilot project to develop a framework of virtual repository of learning resources with a single-window search facility. National Digital Library can be accessed through <https://ndl.iitkgp.ac.in/>.

Activities conducted by Library:

Book Exhibition: Book exhibition is a book fair and a special occasion for the lovers of book Library organized a Book Exhibition. The noble objectives of this program was to make the students aware of the collection of variety of books and information sources available in our college library. During this, books are purchased for the library as well as by the other people who visit the exhibition.

Library Reader Award 2018-19: To make the rural areas students efficient and knowledgeable, Science College Pauni Dist. Bhandara started this best practice in 2018-19. The practice has proved fruitful as it has developed reading habit of the students. This award is given to the students on his/her performance in the library.

Sr.No.	Name	Branch	Year
1	Ms. Kalyani Shende	PCM	III

Department of Lifelong Learning and Extension, Rashtrasant Tukadoji Maharaj Nagpur University Nagpur and Department of Library, Science College Pauni Dist. Bhandara have started certificate program since session 2018-19. Certificate Course in Library and Information Science, each program of three-month duration. Certificate Course in Library and Information Science have been opted by 30 students taken admission to Certificate Course in Library and Information Science. Majority of the students from all the available courses actively participated in this certificate course.

5. Physical Education:

Department of Physical education of Science College, Pauni, Dist- Bhandara organized the following activities in the academic year 2018-19

International Yoga Day:

India has great cultural heritage. Our ancient Guru and Vedas have great information regarding yoga and health. In accordance with international yoga day college authorities and physical education department the international yoga day celebrated in college campus under the supervision of yoga teacher Mr. Dnyaneshwar Bhure on 21 June, 2018. Principal, teaching and non-teaching as well as students have performed various asana.

Yoga Program:

On 07/09/2018 to 09/09/2018 various programs in relation to yoga day were organized. During the yoga session the trainer has demonstrated various yoga exercise which was followed by the students and the staff. To make the programs grand success DPE and staff members have taken painful efforts.

Inter collegiate tournament of Nagpur University

Under this activity zonal games were organized on 03/10/2018 that is kabaddi (men) at J. M. Patel College, Bhandara and 10 students have participated. 04 students have participated in the athletic events organized by RTM Nagpur University, Nagpur between 11/10/2018 to 16/10/2018. It is great pleasure to note that Ku. Ishwari R. Bhure students of III semester received Third rank in 5km walking competition. At the same time Badminton (men) tournament was organized between 15/10/2018 to 17/10/2018 at Arts, Commerce College, Bhiwapur. Four of the students from our institution have actively participated in the inter-collegiate tournament. However, one student was selected for university trial for hockey team.

Tournaments at college level:

On occasion of founder president Dr. Panjabrao Alias Bhausaheb Deshmukh birth anniversary various games and sports competition for students of college were organized on 26 January, 2019 in which Badminton, Volleyball, Kabaddi, Carom, Athletics etc. were taken.

6. National Service Scheme (NSS)

A meeting was organized on 16-07-2018. In that meeting new information was given. And what programs were to be implemented throughout the year held on 16-07-2018

i) Voter Awareness Program

Voter Awareness Program was implemented on 20-07-2018 through NSS Unit. Students took out a procession from Pauni city and created voter awareness.

ii) Vanmohatsav program

On 16-08-2018, on the occasion of Van Mohatsav program was implemented in the college, the Minister of State for Energy, Chandrasekhar Bavankule was present. To help make the program a success through the NSS unit for arboriculture planted in the college premises by hand.

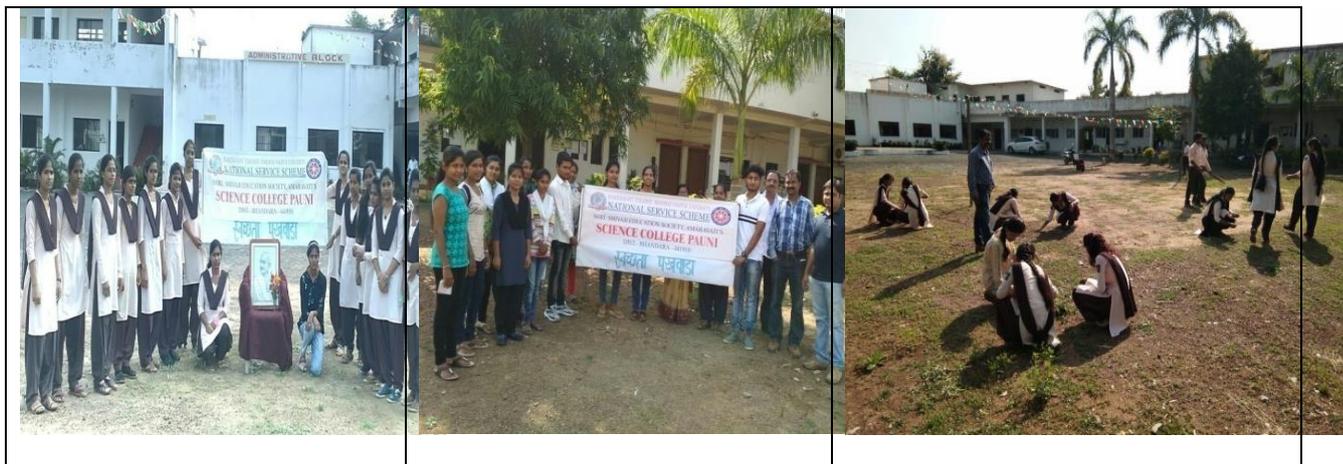


iii) **Rakshabandhan Celebration:** On the auspicious occasion of Rakshabandhan, IQAC in collaboration with Viswanshanti Prajapita Brahma Kumaris has organized Rakshabandhan celebration on 27.08.2018. All faculty members and students from all the available courses enjoyed this celebration.

iv) **Youva Bhushan Exam** was conducted by the NSS on 08.12.2018.

v) **International Democracy Day**-International democracy day was celebrated in our institute in the month of September on 15.09. 2018. All faculty members and students of the college were actively participated in this program.

vi) Swachh Bharat Abhiyan: On 2nd October 2018, under the Swachh Bharat Abhiyan, Swachhta Pandharwada was organized in the college on the eve of Mahatma Gandhi Jayanti. Student and all the staff members have actively participated in the cleanliness drive.



vii) Reading Inspiration Day was observed in our institution on 15th October, 2018 on the eve of birth anniversary of former President of India Dr. A. P. J. Abdul Kalam. On that occasion, a garland was offered to his photo.

viii) Constitution Day: Constitution Day was celebrated in the college on 26-11-2018. On this occasion, the preamble of the constitution was read and a copy of the preamble of the constitution was given to the students.

ix) IQAC and NSS in collaboration has organized Students Social gathering on 27.12.2018

x) Andhrashraddha Nirmulan: To fight about the superstition among the students and faculty members, NSS has organized this program on 11.1.2019

xi) Mahatma Phule Birth Anniversary: The Birth Anniversary of social reformer Mahatma Phule is observed in this institution on 11.04.2019. This year NSS of the institution taken an initiative for the organization of the program.

xii) Organization of guest lecture: On contribution of Dr. B.R. Ambedkar in Indian Socio-economic development NSS has organized a guest lecture on 14.04.2019

xiii) NSS camp: From 06-01-2019 to 12-01-2019, a residential labour camp was conducted by the college at Gram Panchayat Junona. 55 students participated in this and teaching and non-teaching also participated. Through this labour culture camp. Entertainment, intellectual guidance, superstition eradication programs were implemented

AVHAN CAMP (Nanded 2019):



xiv) Blood Donation Camp: Blood Donation Camp was organized at Shramsanskar Shibir through Ayushya Rakta Pedhi, Nagpur. 22 villagers and students have donated blood. Mr. Sheshraoji Khade, Secretary, Shri Shivaji Education Society Amravati's visited and appraise the efforts taken by all the NSS volunteers and the organizer.

xv) University level debate competition: A university level debate competition was organized on 13-02-2019 at Balakhande College, Pauni. **Kovitika Gaur** of Mahavidyalaya bagged the second prize in this competition.



7. Women Redressal Cell:

Following issues have been addressed by the Women Redressal Cell during the academic year 2018-19.

a) Awareness program for women safety and respect:

Our college is committed to enhance the safety and well-being of all the women on-campus including students, staff and the community members through organization of various activities and the execution of the rules and regulations for prevention of such activities leading to the humiliation to women. On 3rd September, 2018, a talk was organized in the college for girl students on “Women Safety and Respect” in the seminar hall. As per the directives of IQAC, the women redressal cell invited Dr. Ushakiran Meshram, the internal faculty, to deliver a talk on the safety measures and the making the girl students aware of their rights. The speaker emphasized on the safety measure taken by the institution and also made the girl students aware of their rights.



Dr. Ushakiran Meshram addressing the students during the session

b) Talk on gender sensitization’:

With a view to take up the women’s issues and problems, and as per the directives of IQAC, Women Redressal Cell organized talk “Gender Sensitization” on 15th September, 2018 at 11.00 am. Dr. AK Aney, Coordinator- IQAC, was the speaker on the occasion. His major portion of talk was on the “Right to life and liberty” governed by the Article 14,19 and 21 of the Indian constitution. Dr. V.V Lepse, chaired the program and guided the students on few of the related areas of women empowerment. The talk was ended with the appreciation of women redressal cell and finally the vote of thanks proposed by the convener, WRC.



Dr. AK Aney addressing the gathering of the students

c) HIV-A silent Killer:

1st December, 2018 was the World AIDS Day observed in the college. As per the letter received from State Liaison Officer, NSS, Government of Maharashtra, the IQAC of the college directed the women redressal cell to organize awareness program on the eve of world AIDS day by calling the faculty from life science as resource person to talk on this occasion. Accordingly, the WRC invited Dr. BS Rahile, to talk on the occasion of world AIDS day. The speaker explained in detail the genetic structure of the virus and the common modes of its transmission. The talk was attended by huge number of students, both male and female and the staff of the college.



Dr. Rahile addressing the gathering of the students

d) Women Education in India:

In order to highlight the role of women in nation building, women redressal cell organized a talk “Women’s Education in India” on 4th January, 2019 on the eve of birth anniversary of the great visionary and the pioneer of girl’s education in Maharashtra, late Savitribai Phule. The talk was chaired by Dr. V.V Lapse, Principal who garlanded the portrait of Savitribai Phule. Dr. AK Aney,

IQAC-Coordinator talked on the occasion and briefed the biography of Savitribai Phule. The speaker urged to the girl students to go for higher education and exploit their potential in different avenues open for them. The educated mother can help in inculcating the values in the minds of their children and can help them out to be responsible citizen of the country. The session was concluded with the vote of thanks proposed by Dr B.D Gharde and national anthem.

e) Organization of Poster Competition (Theme: Beti Bachao, Beti Padhao):

During the current academic year and as per the directives of IQAC, Women Redressal Cell has organized poster competition on the theme entitled **Beti Bachao, Beti Padhao**, on 25th January,2019 in the seminar hall. The competition was aimed at creating the awareness among the students and the people in the society about the importance of girl child and to get rid of from the traditional customs followed centuries together. All the students were notified earlier about the program and the theme of poster competition and were asked to prepare the posters at their home. Dr. KB Nagarnaik, Head, Dept. of Zoology, was invited as jury for the evaluation of the posters. The posters were kept open for the entire day for all the students, staff and the parents. In all 25 students have taken part in the poster competition. The posters were evaluated by the jury and ranked accordingly as first, second and third.

Prize	Name of the winner	Class
First Prize	Ms. Madhavi Behare	BSc I
Second Prize	Ms. Diksha Bhure	BSc I
Third Prize	Mr. Ajay Meshram	BSc II





f) Essay Competition (Theme: Empowered women makes empowered society):

Under the direction of IQAC, the Women Redressal Cell have organized an essay competition on the theme entitled 'Empowered women makes empowered society', on 4th February, 2019. All the students were notified about the competition and encouraged to participate in the event organized. In all 37 students, including 25 girls and 12 boys, were actively participated in this competition. The essay submitted by the participating students was evaluated by the faculty members and ranked the students based on the merits of the content, presentation and the writing skill. All the participating students were appreciated but finally names of the three students were declared for first, second and third prizes.

Prize	Name of the winner	Class
First	Ms. Sanjivani Vairagade	B.Sc. III
Second	Mr. Raju Bhajipale	B.Sc. I
Third	Ms. Khushbu Lanjewar	B.Sc. II



g) Women Empowerment:

The women redressal cell in collaboration with NSS unit and as per the directives of IQAC organized a talk on women issues related with empowerment of women, on 23rd February, 2019, in the college. The event was inaugurated by Prin. Dr. VV Lapse in presence of the guest speaker and the faculty members of the college. The WRC invited Mrs. Manishatai Karte, Social worker, from Yavatmal, Mrs. Shakshana Salgar, President, Mahila Rashtrawadi Congress, Maharashtra as a chief guest and the resource person respectively. Mrs. Manishatai Karte, the resource person has guided the girl students by giving simple tips to move on the path of progress by acquiring the skills and the knowledge. Mrs. Salgar, during her speech expressed the need of exploration of the intellects for the peace, security and prosperity of mankind. Majority of the girl students from the college attended the event. The event was concluded by proposal of vote of thanks by Dr. SD Raibole, NSS coordinator.



Mrs. Manishatai Karte addressing the students. Dr. VV Lapse giving inaugural speech.

8. Result Analysis: After declaration of results, the result analysis committee prepares the result analysis and presents it to the Internal Quality Assurance Cell. For the session 2018-19, for the final year university exam, a total of 79 students appeared and 66 students passed with a 99% passing percentage, and 10 students stood in Ist division. The following table shows the overall results of all the semesters of three courses.

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, PAUNI,

DISTRICT-BHANDARA RESULT ANALYSIS

RTM NAGPUR UNIVERSITY THEORY EXAMINATION (SESSION 2019-2020)

B.Sc. (Biology)

Course	Subject	Class	Sem.	No. of students appeared	No. of students passed	Passing%	No. of students in distinction	No. of students in 1 st division
Biology (CBZ)	Botany	B. Sc. I	I	71	31	44	1	10
			II	64	35	55	2	14
		B. Sc. II	III	65	18	28	1	8
			IV	58	26	45	3	11
		B. Sc. III	V	28	24	86	-	6
			VI	28	24	86	4	15
	Zoology	B. Sc. I	I	70	10	14	-	4
			II	66	34	51	-	8
		B. Sc. II	III	64	11	17	1	1
			IV	62	38	61	2	10
		B. Sc. III	V	28	16	57	-	3
			VI	27	23	85	3	15
	Chemistry	B. Sc. I	I	67	10	15	-	2
			II	63	15	24	-	2
		B. Sc. II	III	63	7	11	-	2
			IV	60	28	47	-	6
		B. Sc. III	V	24	14	58	-	4
			VI	27	23	85	1	8

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, PAUNI,
DISTRICT-BHANDARA RESULT ANALYSIS**

RTM NAGPUR UNIVERSITY THEORY EXAMINATION (SESSION 2019-2020)

B. Sc. (Mathematics)

Course	Subject	Class	Sem.	No. of students appeared	No. of students passed	Passing%	No. of students in distinction	No. of students in 1 st division
Mathematics (PCM)	Chemistry	B. Sc. I	I	42	18	43	1	7
			II	41	18	44	-	5
		B. Sc. II	III	54	17	31	-	8
			IV	54	30	56	-	11
		B. Sc. III	V	39	25	64	2	8
			VI	41	35	85	1	13
	Mathematics	B. Sc. I	I	44	23	52	-	6
			II	43	28	65	-	8
		B. Sc. II	III	60	23	38	-	9
			IV	58	33	57	-	9
		B. Sc. III	V	41	27	66	-	8
			VI	41	40	98	-	25
	Physics	B. Sc. I	I	44	21	48	1	4
			II	43	31	72	-	8
		B. Sc. II	III	60	24	40	03	07
			IV	60	33	55	3	8
		B. Sc. III	V	41	29	71	1	9
			VI	40	39	97	2	16

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'SSCIENCE COLLEGE, PAUNI,

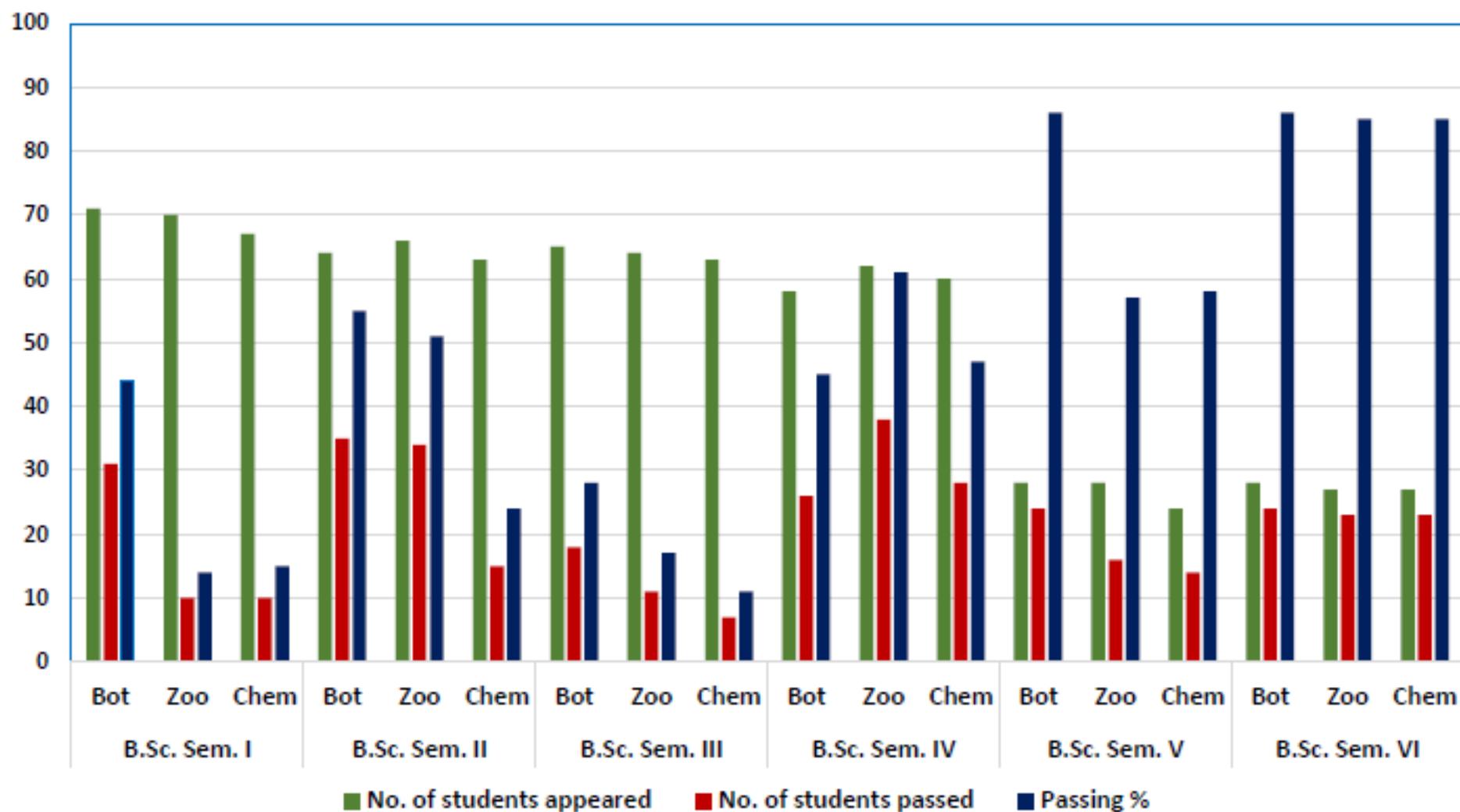
DISTRICT-BHANDAR A RESULT ANALYSIS

RTM NAGPUR UNIVERSITY THEORY EXAMINATION (SESSION 2019-2020)

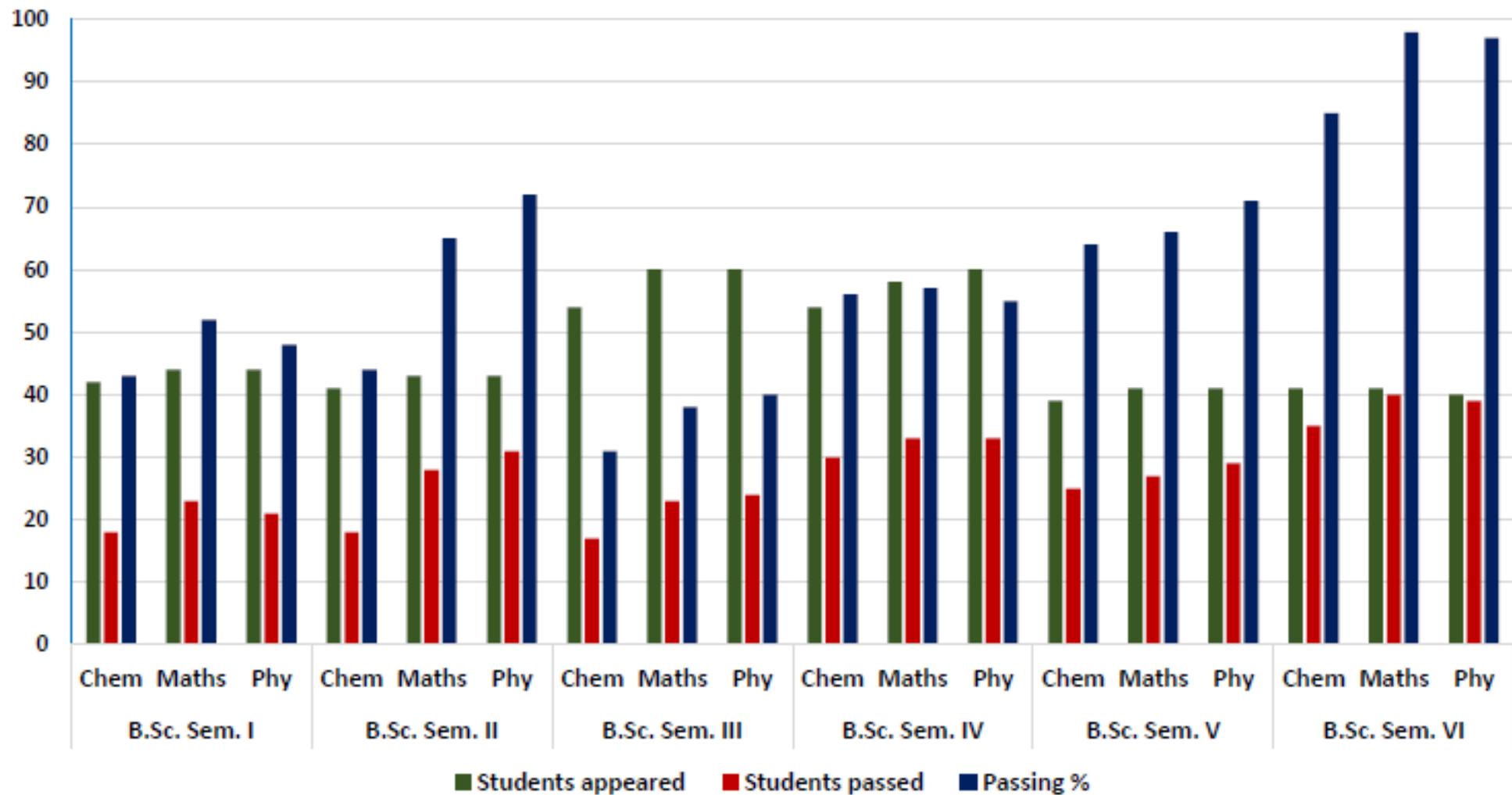
B. Sc. (Computer Science)

Course	Subject	Class	Sem.	No. of students appeared	No. of students passed	Passing%	No. of students in distinction	No. of students in 1 st division
Mathematics (C/S)	Computer Science	B.Sc.I	I	29	14	48		
			II	29	11	38		
		B.Sc.II	III	30	12	40		
			IV	30	14	47		
		B.Sc.III	V	10	7	70		
			VI	10	10	100		
	Mathematics	B.Sc.I	I	28	5	18	-	-
			II	27	14	52	-	3
		B.Sc.II	III	32	15	47	-	6
			IV	31	17	55	-	6
		B.Sc.III	V	10	7	70	-	3
			VI	9	9	100	-	9
	Physics	B.Sc.I	I	28	4	14	-	-
			II	27	11	40	-	1
		B.Sc.II	III	32	8	25	1	4
			IV	30	14	47	1	4
		B.Sc.III	V	10	5	50	-	1
			VI	10	10	100	1	2

Graphical representation of result analysis of university Examination for the academic year 2018-2019
CBZ Group



**Graphical representation of result analysis of university Examination for the academic year 2018-2019
PCM Group**



Graphical representation of result analysis of university Examination for the academic year 2018-2019
Computer Science Group

