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From the Desk of the Editor



It gives me immense pleasure to pronounce that publishing an IQAC Newsletter biannually has been one of our best practices since 2014. However, it overwhelms us to publish a special issue of this newsletter as part of our Golden Jubilee Celebrations this year.

I hope, this Golden Jubilee Special Issue will serve as a beacon light for the future stake holders of this college to follow their journey towards excellence.

I am sincerely grateful to our Principal Dr. V. G. Thakare for his constant inspiration and support to make this special issue of the IQAC Newsletter to fruition. I also thank our IQAC team and my colleagues for their everlasting cooperation.

Thank you.

Prof. H. S. Lunge
Chief Editor & IQAC Coordinator

Shri Shivaji Education Society, Amravati's SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI IQAC NEWSLETTER



From the Desk of the Principal

I must mention that this journey of becoming a premier college in this region was not so easy. The sincere and dedicated efforts of our former principals, teachers and non-teaching staff who together strived hard towards achieving excellence are worth mentioning here.



Dr. V. G. Thakare

It is my privilege, together with my staff and the students, and with the benevolence of our parent management, to publish the special issue of IQAC Newsletter on the occasion of the Golden Jubilee year of our esteemed institution. We feel proud to declare that it has indeed grown from a seedling into a huge tree that has not only sheltered thousands of youngsters but also moulded them into great personalities, now scattered across the globe. I hope this systematic and meticulous exercise will provide for us an opportunity to look back into the past as well as to march forward in order to work efficiently for the promotion of scientific temper and achieving excellence in providing quality education to the youngsters entrusted unto our care. I feel delighted to proclaim that I have invested probably the largest span of around 40 years in this college since my joining here as a lecturer in Chemistry in 1981. After 26 years of teaching, I was appointed as the Principal in February-2007 and thus could have a meaningful experience of 14 years of administration. It's a matter of special mention that I am the principal who have been nominated as a College Representative consecutively for three terms from June 2009 on the Executive Committee of Shri Shivaji Education Society, Amravati. I am thankful to our management for showing faith in my capabilities and giving me this opportunity.

I took charge of the Principal of this college in February 2007 and endeavoured to nurture the culture of working together with all the stakeholders for its all-inclusive development.

It's a matter of great pride and reverence to me that today this college is conferred with the 'A' Grade by NAAC and has also earned a special reputation as a "College with Potential for Excellence" by the UGC,- in the first and second phase continuously. The DST has sanctioned us the grant for 'FIST' program to upgrade the PG and research facilities. To add more, the college is identified as the 'Lead College' by Sant Gadge Baba Amravati University, Amravati.

Our College has to its credit innumerable achievements not only in the field of academics but also in co-curricular, cultural and sports events. Our students have been toppers in a number of events at the University, State and National levels. The college has kept up its pace of progress by adding new courses, upgrading teaching-learning methodologies through ICT, conducting extension activities and has shown a remarkable potential for growth in research through operating projects, publishing papers in reputed journals and presenting papers in state, national and international academic events. To inculcate the scientific temper amongst the students, the college has availed the facilities and opportunities through organising the District level 'Avishkar' Competitions and 'National Science Day' every year.

Many of our students do appear in the university merit list every year. They have obtained the grants under INSPIRE Scheme of DST and research projects too. Moreover, they have achieved great success and brought laurels to the college in various academic competitions, sports and cultural events. In 2020, our college has received a Championship Trophy for excelling in the maximum number of events at the University Youth Festival and our college Drama Team has bagged the prestigious Purushottam Karandak at the divisional level. Every year, our students are University colour-holders at the various sports events. Our college NCC cadets have been selected for Republic Day Parade, TSC, Delhi and have been invited to participate in Youth Exchange Programs abroad.

The college has expanded infrastructural facilities to keep pace with the ever-growing number of students and programmes. Over this decade, the college has developed adequate physical infrastructure to run various academic programmes efficiently in an area of 11.85 acres. Through the UGCXI-plan, the construction of women's hostel and the Basketball court with the installation of flood lights is completed. Many other sports facilities are made available on a large area of 5 acres behind the library building. The construction of the new spacious library building is also in progress.

The college has received Basic Sciences grants from UGC apart from the regular development grant through which the laboratories have been well-equipped. The UGC has also sanctioned us the grant for the development of 'Central Instrumentation Cell (CIC)' with advanced equipments for research purpose. Many researchers in this region have taken advantage of CIC. The new courses like M.Sc. in Bioinformatics and Environmental Science, B.C.A. and B. VoC in Forensic Science have been started during this decade. To enrich the curriculum the college has initiated the add-on and value-added certificate courses in Yoga and Meditation, English Communication Skills, English Vocabulary Building, Cyber Security, Statistical Methods, etc.

With a view to inculcate scientific temperament among the students and the society in general, the college has organised scholarly lectures of the eminent scientists and astronomers like Dr. Raghunath Mashelkar, Dr. Vijay Bhatkar, Dr. Jayanat Narlikar, and Dr. Anil Kakodkar. The

Science and Innovation Activity Centre (SIAC) of our Society funded by the Rajiv Gandhi Science and Technology Commission, Government of Maharashtra, is managed by this college. Our teachers along with the students have been involved in popularising the concepts of basic science through the models established in this centre. In addition to this, the college has organised many National and International conferences on various subjects and also on Academic and Administrative Audit (AAA) in collaboration with NAAC, Bangalore. Our college has also organised workshops for the quality initiatives as suggested by NAAC for the colleges run by our parent society.

I must mention that this journey of becoming a premier college in this region was not so easy. The sincere and dedicated efforts of our former principals, teachers and non-teaching staff who together strived hard towards achieving excellence are worth mentioning here. This is why we made it a point to learn from our former principals their glorious experiences and the substantial contribution towards the development of this auspicious institution and include it in the following section of this newsletter.

I am grateful to our parent management for giving me an opportunity to govern this eminent institution. I also express my sincere thanks towards my teacher colleagues, non-teaching staff and the students for their cooperation from time to time. My joys know no bounds to express that this college is celebrating the Golden Jubilee Year under my regime as the Principal.

May this august institute have even more magnificent years ahead.

Thank you.

A Brief Overview of the college and the Parent Society

With a noble aim of providing higher education to the students of the neglected and the downtrodden and uplifting them to bring into the esteemed intellectual class of the society, Dr. Panjabrao alias Bhausaheb Deshmukh established the Shri Shivaji Education Society, Amravati in 1932. Dr. Punjabrao Deshmukh, a great educationist, philanthropist and a leader of the peasants; who was also the First Agriculture Minister of Independent India, and the Member of the "Constitution Draft Committee" for the Govt. of India soon made this society a premier society imparting quality education to all in the Vidarbha region.

It was Bhausaheb who started the first college of Shri Shivaji Education Society at Amravati. Established in 1946, Shri Shivaji College, Amravati was initially a cluster of five colleges imparting education in five streams- Science, Arts, Commerce, Law and Agriculture. With the immensely growing importance of science in human life, the science stream was separated from this college in 1969 resulting in the establishment of Shri Shivaji Science College, Amravati. This was just a beginning of the great journey towards scientific, logical and intellectual enlightenment.

Since its inception, the parent management has been striving hard for the overall development of this college. The visionary zeal and significant contribution of the earlier presidents of the society- Late Hon'ble Babasaheb

Gharpalkar, Late Hon'ble Raosaheb Ingole, Late Hon'ble Dadasaheb Kalmegh, Late Hon'ble Vasantraoji Dhotre, and Hon'ble Adv. Arunbhau Shelke is worth mentioning here. The present President, Hon'ble Shri Harshvardhanji P. Deshmukh is an experienced and insightful administrator who is keen to introduce a perspective plan at the society level to deal with the immanent changes in the education sector because of the New Education Policy- 2020 and has been providing a great helping hand for the overall development of this college.

The first principal of the independent science college

Late P.Z. Deshmukh

(01.01.1969 - 20.11.1969)



The first Principal of this new college was Mr. P. Z. Deshmukh who took reign of the new college on 01.01.1969. He was equally popular among the college staff and the students. Unfortunately, he met with an untimely death that shocked everyone. To pay homage to this scholarly administrator, the staff and the students of that time decided to cancel the Annual Social Gathering functions of the year and diverted the fund allocated for the same on the Gold Medals to be conferred upon the B.Sc. Topper and the H.S.S.C. topper of this college every year since then. Here are the retrospections of our former principals illustrating the enthralling journey of this sacred institution towards eminence and grandeur.

C. K. Zanwar

(21.11.69 - 30.07.1970)



I feel honoured and happy today to come across a huge development of the college where I have served for many years. I believe, this college will continue to flourish in future too

After the untimely death of Mr. P.Z. Deshmukh, I became the Officiating Principal of this college from 21.11.69 to 30.07.1970 till Dr. V. R. Ghurde's official full-time appointment as the new head of the institution. During this short span of about 08 months, I tried my best to monitor the academic activities so that the students get the best possible education. I received great cooperation from our management and my teacher colleagues to run this institution smoothly and efficiently. I am thankful to them all. I feel honoured and happy today to come across a huge development of the college where I have served for many years.

I believe, this college will continue to flourish in future too.

Dr. V. R. Ghurde

(01.08.1970 - 30.06.1996)



One more innovative activity worth mentioning was the formation of the first Nature Club in Amravati in affiliation with the WWF and BNHS. This was the pioneering step towards Nature-conservation by the college.

It gives me a feeling of pride and privilege that I have invested the largest span of about 26 years as the principal of this college from 01.08.1970 to 30.06.1996. During the formative years of the college, I tried to infuse the spirit of discipline and dedication among the teachers, students and the non-teaching staff of the college. I also kept an innate eye on the regular and effective conduction of lectures, practicals, and co-curricular activities. Some quality improvements were brought in and a strong foundation in academic and administrative spheres was built to let this institution emerge as a center of excellence in the years to come.

1979 proved a crucial year in the overall development of the college when Electronics was introduced as a new granted vocational subject in the Junior College stream. The college began to academically compete with some other prestigious colleges of the region. The First Board Merit from the college came out in 1980 and this number grew to eight in 1983. The college had the unprecedented honour of having the State Topper in the HSSC Examination- 1983. Many students got selected in reputed institutes like I.I.T., BITS, V.J.T.I., etc. All these students had opted Electronics as their optional subject. This was also the result of providing special coaching to the potential toppers and also of the innovative Teacher-Guardian Scheme launched by the college. This paved the way for our glorious tradition of Board Merits in the years to come. Due to teachers' efforts in imparting quality education,

students started feeling affinity towards the college. All this resulted in enhancing the college status to a great extent.

A similar trend was followed in the senior college. Many new and beneficial subjects like Microbiology (1981), Geology (1984), Statistics (1987), P.G. in Zoology (1993), and Physics (1993) were introduced in the college. The admissions, appointments and audit were strictly regulated as a part of effective quality enhancement of the college. Moreover, the college set a strict pattern of successfully conducting copy-free university examinations and became the role model for other colleges in the entire university.

As quality higher education is based upon the trinity-teaching, research and extension, the college staff took great efforts to imbibe research culture among the students. Creative teaching-learning was emphasized for effective outcome. The research center in Mycology was established which was recognized by the then Nagpur University. With the establishment of Amravati University, new M.Sc. courses were introduced. The college got recognition for research laboratories in many subjects like Botany, Zoology and Physics.

Research culture got developed during this period. Two students of the centre obtained Ph.D. degree under my guidance. The college teachers started publishing research papers and articles in reputed journals and magazines that included popular articles in 'Rose Annual'- the yearly publication of Indian Rose Federation. Such was the impact of this research tradition that when I retired, there were fourteen Ph.D. degree holders from his college.

During these years, the college teachers became members of the prestigious associations like 'Mycology & Plant Pathology Association' and 'Mushroom Science Society'. In addition to this, various welfare-oriented programmes were also conducted. Mushroom Cultivation Training Programme was organized. I visited RRL, Sanatnagar at Srinagar for studying the methodologies for the better yield of mushrooms. The awareness about the nutritional value and the benefits of mushroom as a human food was created among many families. Polythene bags duly filled with boiled straw and seeded with spawn were distributed to different families. Regular visits and further operations led to cropping of oyster mushroom by these families. Record of bags and the visits were managed by the college. Rose cultivation awareness programmes were also conducted by the club.

The college started organizing educational and excursion tours, industrial visits for the students even though such activities were not a mandatory part of the curriculum at that time. The college also organized a grand 'Electronic Models Exhibition' for the school and college students in 1981-82 and also established 'Vigyan Manch' in the college to inculcate science culture among the students. It was an Honor for the college to have 'Vigyan Manch' as the Amravati District Centre of the State Institute of Science Education of Maharashtra State. This grand exhibition was inaugurated by the then Minister of Maharashtra state Hon'ble Shri. Shivraj Patil. Some other notable

personalities who visited the college during this time included a renowned Marathi Nature-Poet Shri. N.D. Mahanor.

The first computer for the college was purchased in 1987 followed by the establishment of a spacious computer laboratory. To be self-reliant in electronic instruments, the college undertook the project of assembling the necessary components and made instruments for the Physics laboratory. One more innovative activity worth mentioning was the formation of the first Nature Club in Amravati in affiliation with the WWF and BNHS. This was the pioneering step towards Nature-conservation by the college. This Nature Club organized the first tour of students to Gujrat and also organized WWF camps in the forests of Bhamragarh and Nagzira. The club also made WWF films available for students on projector through the British Council, Mumbai. To add more, the Garden Club was formed in the college. This club cultivated almost all the available varieties of seasonal flora and fauna in the college garden. A poly-house was also built along with the cultivation of teak-wood plantation in the available space that reaped harvest in the times to come. Painstaking efforts were also taken for Mushroom cultivation and distribution through a center established in the college.

The Silver Jubilee of the college was celebrated in quite a simple way as most of the fund was utilized for developmental purpose except organizing Living Planet Films Exhibition.

Along with the academics, proper attention was given to develop the college infrastructure in the limited financial resources. During 1990-95, the college received UGC grants for the construction of library building and classrooms.

Various sports activities were promoted in the college from time to time. The college provided the required sports-kits to students and also made the Indoor Badminton Hall available to students for the whole year. As a result, the college bagged the Nagpur University Badminton Championship in the year 1991.

The college also developed and strengthen its NSS unit during this period. The college NSS Officer was made the district In-Charge of the University NSS unit. District-level NSS camps were organized by the college- one at Das Tekadi, Mozari where a large-scale tree plantation was made and the other at Tongalabad, Daryapur where one full-time Homeo Doctor was made available for the free check-up and treatment of the villagers. During the second camp, the NSS volunteers prepared a road from village Tongalabad to Daryapur. Eminent persons like the then District Collector Mr. Dasgupta and Mr. R. S. Gawai visited the camp. Mr. Dasgupta sanctioned a new road from Daryapur to Akola at the demad of the villagers and the NSS volunteers during this visit. To add more, His Excellency Mr. Ali, the Hon'ble Governor of Maharashtra state had visited the NSS camp organized at Melghat. During these days, the NSS unit of the college organized an ideal residential camp which served as a model camp for other colleges in the university for many years to come.

The college NCC unit also flourished during the period. The college NCC Officer was given the additional responsibility as a Commanding Officer of Amravati district unit of NCC. The NCC cadets were highly benefitted by participating in special camps and programmes conducted by the college NCC unit.

I am thankful to our management my colleagues for their cooperation and support during my long tenure as a Principal. I wish this august institution even more glorious years ahead.

Dr. Urmi Shah

(1.7.1996 – 30.6.1998)



I thank our parent body, Shri Shivaji Science College, Amravati for giving me this opportunity and hope that in future the college will achieve a great success

My journey started as a lecturer in science faculty in the department of Botany; under the principal ship of late Mr. N. C. Deshmukh, in the year 1960. However the faculty as established as independent in the year 1969. With the help of my colleagues, my office staff and the brilliant students, the college becomes an outstanding institution.

I took over as the officiating principal in the year 1996. My basic aim was to make the college academically sound and also increase the extracurricular activities. We sent a proposal to the university to start the subject environmental science in the college at UG level. The university gave sanction to the proposal. We also sent a proposal to start M.Sc. in the subject chemistry during 1997-98 and the university approved it. I attended the interface meeting with the UGC at New Delhi. This meeting was mainly to procure grant for the construction of premises for non residential foreign students. I was also successful in procuring grants from the UGC as the development grant for three years, remedial coaching grant and PG development grant.

This is what I could contribute during my short tenure which ended on 30th June 1998. I thank our parent body, Shri Shivaji Science College, Amravati for giving me this opportunity and hope that in future the college will achieve a great success.

V. G. Bhamburkar

(01.07.1998 - 31.01.2007)



The college team worked hard continuously for two years to accomplish the requisite norms laid down by NAAC. On account of these comprehensive efforts, Shri Shivaji Science College, Amravati emerged as a pioneering institute to have first accredited with NAAC in the entire Amravati University and that too with 'Four-Star' rating in 2001.

I took the reign of this prestigious college in 1998. Having had the experience as a professor in Govt. Vidarbha Mahavidyalaya, Amravati for a long period, I immediately initiated many developmental projects in the college.

In 1999, the college initiated the process of getting accredited by NAAC. Necessary quality improvements at academic, administrative and infrastructural level were made to achieve higher grade by NAAC. The college team worked hard continuously for two years to accomplish the requisite norms laid down by NAAC. On account of these comprehensive efforts, Shri Shivaji Science College, Amravati emerged as a pioneering institute to have first accredited with NAAC in the entire Amravati University and that too with 'Four-Star' rating in 2001. It's a matter of fulfillment and pride that we were the second college in the Vidarbha region to have acquired this status. This college thus became a 'role model' for many other colleges in the state of Maharashtra to carry out NAAC accreditation with flying colours.

With the financial assistance from the U.G.C., the State Government and also from the management of Shri Shivaji Education Society, the major infrastructural development of the college- like building the classrooms, well equipped laboratories, Main Auditorium, A.V. Theatre was carried out. Some classrooms and the laboratories which were before situated in the adjacent Arts College building were shifted into this college and the dispersed departments were clustered into homogeneous entities. The beautification of campus was carried out through systematic varied plantation and lush-green lawn transforming it into a 'Green Campus'.

During this period the P.G. departments in the subjects like- Chemistry (1998), Computer Software (2001-2002) were started. The laboratories were restructured and made well-equipped. Moreover, new U.G. and P.G. courses were introduced into the college. These include Environmental

Science, Biotechnology and Bioinformatics. The research activities were promoted at length. Till 2007, the college witnessed a significant increase in the number of Ph.D. degree holders.

To add more, the college started Career Oriented Prorammes (COPs) in the departments Botany, Microbiology and Chemistry. These programmes helped the students in refining their subject knowledge and undertake specialized study or research in their future career.

When the government started conducting CET (Career Entrance Test) for admissions to professional courses in Medical and Engineering streams, this was the first college in Amravati region to provide special coaching for this examination. A huge number of students of this area could come out with flying colours in this examination on account of this special coaching given to them by the dedicated teachers of this institute.

The Guardian Teacher Scheme which had proved a stunning success in the Junior college was initiated in the Senior College also. Along with this scheme, a novel Feedback System was implemented in which the evaluation of the Principal and the teachers was made by the college students. It must be mentioned that, this system was highly appreciated by NAAC.

Some major events organized during this period included 'Four-Day Science Exhibition for School Children' in the year 2004. This innovative activity aiming at propagating scientific awareness received a huge response from schools and junior colleges all over the region. It was the new concept that helped imbibe a scientific spirit among the school and college students to a great extent. Such an event was never organized at the University level before.

Similarly, a proper attention was paid towards co-curricular and extra-curricular activities too. The NCC and the NSS units and the Sports department of the college were flourished during this time. Four students had got selected for the Republic Day Parade at Rajpath, Delhi from the N.C.C. unit this college.

To add glory to the institution, the teachers of this college bagged prestigious awards like – 'National Teacher Award' (2006-07), State Teacher Award (2000-01) and Maharashtra State Savitribai Phule Best Teacher Award (2012-13).

Thus, a proper work culture and team work among the teaching and non-teaching staff of the college was flourished during this period. When I visit this college today, I become pleased to experience the same work culture. I am sure, everyone working with this institution will take it to even greater heights in future.

I wish you all a spectacular success ahead.

Memorable Milestones

The college is publishing biannual Newsletter since 2014. We feel proud and happy to share few memorable events which were not covered in the past volumes of News Letters.



Dr K. G. Deshmukh, Vice-Chancellor Amravati University and **Shri Vasanraoji Dhotre**, President of Shri Shivaji Education Society



Dr. Arun Nigavekar, UGC Chairman, visited the conference



Dr. Arun Nigavekar, UGC Chairman, visited the conference

First National Conference on "Recent Trends in Composites Orgd. by Dept of Physics (2001)



Dr. C. Rajshekhran, Director, NAAC Bangalore along with Dr. Sudhir Patil, Vice Chancellor of S.G.B. Amravati University visited the college.



NAAC Peer Team Chairman handed over the report (First cycle of Accreditation - 2001)



IQAC members with Peer Team members during PT visit of second cycle (2008)



Prin. Dr. V. G. Thakare with Peer Team members during PT visit of Third Cycle Accreditation. (2015)

Students Interaction with Eminent Scientists

Padmavibhushan Hon'ble Dr. Raghunath Mashelkar



Dr. Raghunath Mashelkar addressing the gathering of students and faculty of the college on 31st January, 2012

Padmabhushan Hon'ble Dr. Vijay Bhatkar



Dr. Vijay Bhatkar addressing the gathering of students and faculty of the college on 31st January, 2012

Padmavibhushan Hon'ble Dr. Jayant Naralikar



Dr. Jayant Naralikar addressing the gathering of students and faculty of the college on 12th January, 2013

1st Degree-Certificates

Distribution Ceremony-2019

The First Degree-Certificates Distribution Ceremony for the students who passed out in the academic year 2017-18, was held on 1st March 2019 at the Sir C. V. Raman Auditorium of the College. Dr. Sudhir N. Patil, former Vice-Chancellor of SGBAU, Amravati was the chief guest of the function. Hon'ble Shri Harshvardhanji P. Deshmukh, President, Shri Shivaji Education Society, Amravati, presided over the function. Adv. A. U. Thuse, the executive council member of the parent management was also present on this occasion.



In his introductory speech, Dr. Vijay G. Thakare, Principal of the college, stated the objectives and importance of the ceremony. All the Heads of the departments along with the IQAC Coordinator, Dr. H.S. Lunge were present on the dais. Initially, the degrees were distributed to the University Gold Medalists from UG and PG programmes along with the college Gold Medals. The Gold Medals were also conferred upon the students who secured highest marks in the first and the second year of the UG programs.

About 450 students from all PG, UG programs were present for the ceremony. The Chief Guest Dr. S.N. Patil congratulated all the degree holders and urged the students to acquire knowledge of the other skill-based courses to excel in this competitive world and also to obtain jobs in the government and non-government organizations. In the presidential address, Shri Harshvardhanji Deshmukh encouraged the students to be well prepared to face the challenges of new technology and develop their personality in all aspects.

Along with the guests, Dr. V. B. Bhatkar, Dr. G. N. Chaudhary, Dr. S.V. Chaudhary, Dr. H. M. Deshmukh, Dr. Mrs. N.V. Bhatkar, Dr. Mrs. C. K. Ukesh, Shri V. V. Hebbar, Dr. Revati Khokale, Shri U.M. Patil, Shri. B.K. Dorkar and Dr. Kavita Watane were present on the dais. The program was conducted by Dr. Mrs. S.P. Ingole and Dr. Mrs. A. S. Burghate. The IQAC members, teachers and nonteaching staff worked jointly for the successful organization of the program.

National Symposium on Innovative Materials & Devices (NSIMD-2019) 24-25 June 2019



The National Symposium was organized by the department of Physics in collaboration with department of Physics, SGBAU, Amravati during 24-25 June 2019. In all 155 delegates, research scholars and P.G. students were registered and participated for the symposium.

The inaugural function of this two days symposium was held on 24th June, 2019, 11 am at the AV theatre of Sant Gadge Baba Amravati University Amravati. Symposium was inaugurated at the hands of renowned scientist, Hon'ble Dr. Shekhar Mande, Secretary, DSIR & Director General CSIR, New Delhi. Dr. Muralidhar Chandekar Hon'ble Vice-Chancellor of Sant Gadge Baba Amravati University, Amravati presides over the inaugural function. Prof. Dr. S.V. Moharil EX-Head PGTD, RTM Nagpur University, Nagpur, Dr. KVR Murthy President of Luminescence Society of India were the guest of honor for the inaugural function.

Dr. V.G. Thakare, Principal, Shri Shivaji Science College, Amravati Dr. T.R. Deshmukh, Registrar, S.G.B.A.U. Amravati and Dr. S.K. Omanwar, Professor and Head, Department of Physics, S.G.B.A.U. Amravati, were present on the dais on this occasion.

The inaugural session was followed by the key note address of Dr. Shekhar Mande on 'Technological developments in India' and Dr. S.V. Moharil on 'Advance Materials for the application'. Session was chaired by Dr. V.B. Sapre, Ex-Head Department of Physics, RTM University, Nagpur.



Then there were two slots of parallel sessions after lunch. In which ten invited talks were delivered by renowned researchers from all over India. One industrial talk was delivered by the representative of Lab India Pvt. Ltd. Mumbai.

Invited talks were followed by parallel poster presentation session where around 100 papers were presented.



Second day of the symposium was held at Shri Shivaji Science College, Amravati. The day was begun with an invited talk by Dr. Bhushan Dhabekar, BARC, Mumbai followed by the paper reading session in which ten papers were presented in various disciplines of material science and devices. The next session special session, named Dr. K.G. Deshmukh memorial lecture, was chaired by Shri Harshwardhanji Deshmukh, Hon'ble President of Shri Shivaji Education Society. The lecture was delivered by Dr. S.H. Pawar, senior scientist and Ex-VC of D.Y. Patil University, Pune.

After this there were two more sessions in which four invited talks were delivered by the eminent researcher. The symposium was concluded at 5.00 pm on 25th June, 2019. Principal, Dr. V.G. Thakare has chaired the function, Dr. Rajesh Jaipurkar, Pro-VC, S.G.B.A.U. Amravati was the chief guest. Dr. G.V. Patil, Dr. M.K. Khedkar, Ex-CVs, S.G.B.A.U. Amravati and Dr. F.C. Raghuvanshi, Dean, Faculty of Sciences and Technology, S.G.B.A.U. Amravati were the guests of honor. Dr. P.A. Nagpure, Organizing Secretary, NSIMD-2019 presented the overall figures and Dr. V. B. Bhatkar, Convener NSIMD-2019 who gave vote of thanks.

Two Days Workshop On Nanomaterial Synthesis



The workshop on nano-materials synthesis was organized by the department of physics in collaboration with IIT, Kharagpur, during 17th and 18th February, 2019. In all 42 students from various colleges were participated in the workshop. On the first day, the first session of the workshop started with inaugural ceremony in presence of Head and faculty of the department. The mentor for the workshop was Dr. T. Theivasanthi from Kalasalingam University, Tamilnadu. In the post lunch session Dr. T. Theivasanthi illustrated the different methods of synthesis of nanomaterials

In the third session students were engaged in the hands on training for synthesis of nano-materials such as Silver, Copper, CDS nano particles and also they prepared nanosheets of Graphene and nano cellulose by chemical



On the second day, in pre-lunch session the mentor explained characterization and fictionalization of Nano particles and their applications into the Nano-World. In the post lunch session MCQ test was conducted and top 13 students were short listed. The short listed students gave the short presentation on Nanoscience and Nanotechnology. Lastly five best students were selected by the Mentor for final round at IIT campus.

One-Day Workshop On 'NAAC: New Methodology of Assessment'

In view of the new methodology of NAAC assessment which is effective from 1st July, 2017, the management of Shri Shivaji Education Society, Amravati had decided to organize a workshop on new process of preparing AQAR and SSR for NAAC. To implement on this, a one-day workshop on the revised NAAC methodology of assessment was organized by the IQAC on 26 March, 2019 for the colleges working under the jurisdiction of our parent society. As the assessment process is critical and complex and requires e-documentation of each and every question, it is necessary for every institution to go through its every aspect in depth, so as to complete it systematically and effectively.



The inauguration session was held under the chairmanship of Hon`ble Shri Harshvardhanji Deshmukh, President, Shri. Shivaji Education Society, Amravati. Shri Dilipbabu Ingole, Treasurer and Shri. Sheshrao Khade, Secretary of the society was present on the dais. Prin. Dr. V. G. Thakare, delivered the introductory speech and Dr. N. N. Saste, former Principal, Shri Shivaji Science College, Nagpur expressed his views on the micro-level evaluation system of the revised methodology of NAAC. Dr. Mrs. S. P. Ingole compared the program and Dr. H.S. Lunge proposed the vote of thanks. In all, 46 participants including the Principals and the IQAC Coordinators of various colleges actively participated in the workshop and discussed on the problems faced / queries / doubts related to the NAAC assessment process. A fruitful deliberation was held with the resource persons.

The workshop comprised of four sessions. The first session was focused on Criteria I, II and III, which was elaborated in detail by Dr. D.W. Deshkar, IQAC member, Shri Shivaji Science college, Nagpur. A detailed discussion on Criteria IV and V was held in the second session by Dr. Ashish Raut, IQAC Coordinator, Shri Shivaji College, Akola. The criteria VI and VII were elaborated by Dr. H.S. Lunge and Dr. W.S.

Barde of this college respectively. All these sessions were compered by Dr. Pramod Padole.

The concluding open session was chaired by Prin. Dr. V. G. Thakare in which Dr. N. N. Saste playfully cleared the queries and doubts of the participants regarding the NAAC accreditation. This session was compered by Shri. Vasant Hebbar. Prin. Dr. V.G. Thakare encouraged the participants to gear up for the NAAC accreditation with zeal and optimism. The registration for this workshop was managed by Dr. Gajanan Wagh and Mrs. Gawai. Dr. Dinesh Khedkar proposed the vote of thanks.

National Statistics Day- 29 June, 2019

The Birth Anniversary of the world-famous Statistician Dr. P.C. Mahalnobis is celebrated as a National Statistics Day all over India. The department of Statistics of the college too celebrated this day in collaboration with the office of the Joint Director, Amravati Region, Directorate of Economics & Statistics, Govt. of Maharashtra on 29 June 2019. Hon'ble Vice-Chancellor Dr. Murlidhar Chandekar & Hon'ble District Collector Shri. Shailesh Naval (IAS) was the Chief Guests of this programme. Shri. Sheshrao Khade was present on this occasion as the special invitee. Principal Dr. V.G. Thakare chaired the function. Dr. S.V. Chaudhari, Head of the Statistics Department and Shri. Surendra Gavali, Joint Director, Directorate of Economics & Statistics were present on the dais. The Hon'ble District Collector talked about the importance of statistics in different segments of the Government offices. Being a young and dynamic I.A.S. officer, he shared his experiences to motivate the students and also cleared their queries with wit and humour. On this occasion, the Hon'ble Vice-Chancellor declared to start a short term course in Statistics at SGBAU Amravati to fulfill the demand of the students of this subject



Department of Computer Science

Guest Lecture

A scholarly lecture of Mr. Prasad Nandurkar, C.E.O., MS EEIT, Germany, on the topic "Opportunities Available in Higher Education at Affordable Low-Cost in Different Foreign Countries" was organized by the department. Mr. Nandurkar shared his vehement experiences with the students of B.Sc. & BCA. He prominently guided the students on how to prepare for the entrance examinations of reputed international universities with the best world ranking and how to get admitted to top institutes in affordable fees, scholarships and minimum expenses. He insisted the students to look at Germany as a good option for higher education and job opportunities thereafter. On this occasion Dr. Hemant Deshmukh appealed the students to learn at least one foreign language to have good placement opportunities in multinational companies. He

emphasized not to make differences in the spoken languages while talking of the world as a global village. Dr. H.S. Lunge talked about the recent trends in IT & IoT Technologies. He appealed the students to grab the opportunities in this era of media & technology. Prof. Mukul Bhonde expressed his gratitude towards Mr. Prasad Nandurkar for his invaluable guidance to the students.



Department of Chemistry

To make the students aware about the basic concepts of Chemistry and have aptitude of knowledge to face Entrance tests in future, the department of Chemistry organized an aptitude Test in Chemistry on 7 Feb.2019 at 3.30 pm in Room- G1. 51 students appeared for the test. The 30 min. aptitude test was thoroughly objective, comprising thirty odd questions.



Visit to State/National Laboratories for UG Students

This year, seventy six B.Sc.II (MEB) students visited the Hydrology Project under the Irrigation Department, Amravati. This visit was planned on 8 March, 2019. During this visit, students got the useful information about the different gadgets by which various parameters related to environment are measured and recorded. Here, students got the information about the Sunshine Recorder, Rain Gauge, Stevenson Screen, Anemometer, Pan Evaporator, Wind Vane etc. Students also got acquainted with the working of the Hydrology Project.



Visit to Regional Forensic Laboratory, Amravati was worked out on 31 January, 2019. PG Students of the college were selected for the visit. During this Visit, Dy. Director of RFL, Amravati Dr. Vijay Thakare briefed the students through power point presentation about the different departments of RFL and explained their way of working. This department is under the Home Department of Govt. of Maharashtra. In RFL, Amravati different aspects related with crime investigation are examined and based on this report the police get the clues related to crime. For these two visits, students were accompanied by Dr. P.R. Padole, Dr. N.R. Thakare, Prof. N.H. Bansod and Mr. Amol Thakare of the department.

Review of Paper Writing

This activity was organized for M.Sc. I and II students on 20 February, 2019. Total forty two students participated in this activity. This activity began with the seminar of Mr. Amol Thakare. His presentation included general idea about how to write the title, abstract, keywords, introduction, experimental procedure, results, discussion, conclusion and references. He also explained about the citation, impact factor, h-index, i-index, etc. He informed about various UGC approved journals from different research areas of chemistry. The students' presentations were prepared under supervision of convener of the committee. The students learnt about certain skills to write the research papers for journals. Hard copy of research sample papers related to their project work was provided to the students during the activity.

Resources from PG to UG students

PG students have formed two demonstration groups each of three students Group I, demonstrated the uncommon chemistry practical on the topic Chromatography for B.Sc. II PCM Sem IV students and Group II for B.Sc. II BIO Sem IV Students. The members involved in these groups are Ms. Urvashi Joshi, Mr. Anshul Yadav and Ms. Sneha Rathod all from M.Sc. II Chemistry. They have demonstrated the Paper Chromatography experiments on February 22, 2019. The demonstrator has explained the basic principles involved in the chromatography followed by the hands - on training. All the U.G. Students were actively involved in this part and in real sense they learnt the subject through experiment

Inter - class Chem -Quiz- 2019

To select the team for intercollegiate quiz competition, the inter-class quiz competition for B.Sc. I (offering chemistry) was organized on 20 February, 2019 at 11.30 am in AV Theatre of the college. The three teams were selected for the oral presentation from the first six highest scorers in the Aptitude test in chemistry. The three teams were Electron, Proton and Neutron respectively. There were three rounds for the Chem -quiz, MCQ, Buzzer round and rapid fire. At the end of three rounds neutron team won the competition. Its endeavour and dedication of the student, our selected team won successive second time intercollegiate quiz competition.



Guest Lecture

Chemical Society was inaugurated on 30 August 2018 at the hands of Dr. B. N. Berad, Professor of Chemistry, RTNM Nagpur. Principal Dr. V. G. Thakare presided over the function. On this occasion activity of tree plantation was arranged by the students. All the students of Chemistry from different P.G. centers of Amravati University were present for this function. In this session, the special guest lecture series (Late Dr. Nilay V. Bhamburkar lecture series) was organized on 18th February 2019. The speaker for the session were Dr. M. G. Dhonde, Mohta Science College, Nagpur; Dr. Dhondge, Porwal College, Kamptee and Dr. Ratnakar Lanjewar from Dharampeth M P Deo Memorial College, Nagpur.



Department of Environmental Science

Field Visits

On 24 January, 2019, the Department of Environmental Science organized a field-visit to Wadali Lake to study Pond Ecosystem. This Visit was organized for the B.Sc. I & M.Sc. II students. 40 students from B.Sc. I and 22 students from M.Sc. II visited the lake along with the three faculty members who explained the students about Pond Ecosystem. M.Sc. II year students collected the pond water samples for water quality analysis.



The department also organized a visit to the Sewage Treatment Plant in Amravati on 12 February, 2019 in which 33 students from B.Sc. II and 22 students from M.Sc. II along with 3 faculty members participated.



One Day Workshop on Introduction to GIS and Remote Sensing

The Department of Environmental Science, in collaboration with the Department of Geology & Geo-tech Institute, Aurangabad organized a One-Day Workshop on 30 January, 2019. The workshop comprised of two sessions. The First Session was introduction to basics in Q-GIS and the Second session was hands-on training and practice on computer systems.



ISRO Workshop

The department has an MOU with the prestigious organization- ISRO regarding participation and conduction of workshops on innovative topics. This year, our P.G. students participated in the 5-Day On-line Workshop on Rain Water Harvesting conducted by ISRO.

World Women's Day

On the World Women's Day - 8 March, 2019, a workshop was organized by the department in collaboration with 'College Women Empowerment Cell'. Dr. Pranjal Sharma conducted this workshop entitled "Right Decision at Right Time". The P.G. Students along with teachers also participated in the 'Beti Bachao Beti Padhao' Rally on this day.



Regular Noise & Air Pollution Monitoring:

This activity was conducted for creating awareness regarding the noise and air pollution, its abatement and the need of public participation for tackling noise pollution. The readings are also provided to AMC, Amravati for the preparation of their 'Yearly Report'.

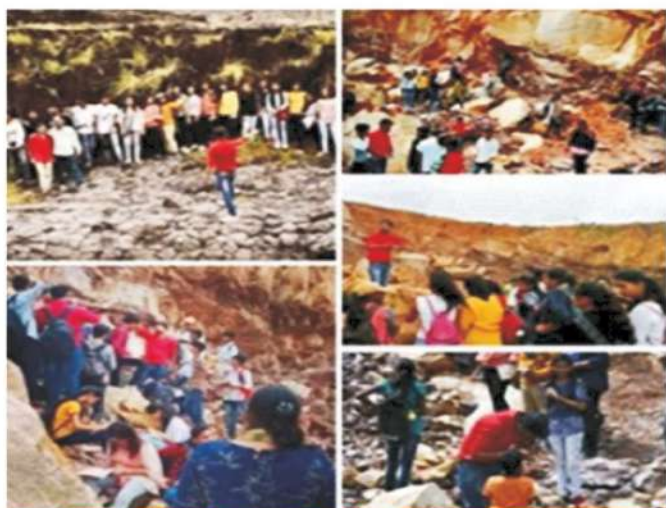
MOU / Collaboration

The department signed an MOU with 'Geotech GIS Training Institute and Consultancy Services, Aurangabad' on 23 January, 2019. The earlier MOU with the Amravati Municipal Corporation was also renewed on 24 January, 2019.

Department of Geology

Inspirational guest lectures by Prof. S. A. Salway, former Head of the Department of Geology of this college were organized on 13 and 14 Sept. 2019.

One Day Geological Field Excursion to "Belkher (Paratwada) and Wazzar Dam (Malhrara) of Amravati district, Maharashtra of B.Sc.I (Sem-I) students was organized on 27 September, 2019. In all, 35 students along with the 3 teachers and 1 non-teaching staff participated in the excursion. This geological tour is a part of the syllabus and hence is compulsory for all students.



Department of Languages

The Wall Magazine of the department- 'Akshar Parimal' was inaugurated on 05 September, 2019 at the hands of Mr. Sudhir Mahajan, Principal, Podar International School, Amravati. The Students' Editorial Board for the Wall magazine was also formed. Many students came forward to

write poems and articles in the Marathi, Hindi and English languages for the magazine.

The department also conducted an add-on course- "Certificate Course in English Communication Skills" for our college students.



Department of Physics

National Science Day

The department celebrated National Science Day on 28th February, 2019. At this juncture, the quiz competition was organized for PG students. In all 37 students participated in the quiz.

Educational Tour



The educational tour for PG students was organized during 26th to 28th January, 2019. The students and faculty members were visited to various educational and research institutes at Indore (MP) during this tour.

Students spent a complete day at UGC-DAE Consortium for Scientific Research, Indore. During this visit the faculty member and students had an interaction with the Director of UGC-DAE Consortium. He briefed about the research centre and facilities available at the centre

After introduction, all students were divided in three groups and were headed by one staff member of respective research lab who helped the students to understand the research work going on in the respective laboratory.

Department of Statistics

Guest Lecture

Mr. Tushar Ranade, an alumnus of the department (1999-2002 batch) delivered a guest lecture organized by the department for the B.Sc. I & III students on 08.02.2019. Mr. Tushar has been a software support specialist in an I.T. company- MDOC. He shared his success story and motivated the students to conquer over the hurdles in life. The students were highly impressed to listen to his lecture



Departments of Biotechnology & Microbiology

Guest lecture

The Department organized a guest lecture on the topic- "Spirulina" by Dr. Charde, Head, Dept. of Microbiology, Taywade College, Koradi, on 19 January, 2019.

Educational visit

An Educational Visit to Water Treatment Plant, Mardi Road, Amravati was organized by the department for the B.Sc. II students on 23 February, 2019.



Department of Zoology

As 'Economic Zoology' is a part of the Zoology curriculum, Apiculture (rearing of honey bees) has been undertaken by the department. The honey-bee rearing box has been installed in the college garden in March- 2019.



Quiz Contest

A quiz contest based on the NET/SET syllabi was organized for the P.G. students of the department on 23 March, 2019. The team consisting of Ms. Gupta and Ms. Manohare of M.Sc.II and the team consisting of Roshan Kaware of M.Sc.I and Ms. Megha Golekar of M.Sc.II won the first and second prize respectively. Dr. J. D. Dhote and Dr. G. A. Wagh worked as judges for the quiz. This intellectual event was conducted by Khushal Ingale. Ms. Pratiksha Puranik, Prathamesh Tiwari, Ms. Pooja Varhade, students of M.Sc.II and Ms. Raghtate, Jagdev Iwane worked as volunteers for the successful organization of the event. Dr. N.V. Bhatkar, Head of the Department congratulated the winners of the contest and also guided the students on this occasion.



Memorandum of Understanding (MoU)

Memorandum of Understanding (MoU) was signed between the college (Department of Zoology) and the NGO- Wildlife and Environment Conservation Society (WECS), Amravati on 18 June, 2019.



NCC

Blood Donation Camp

On the Valentine's Day, blood donation camp was jointly organized by the National Cadets Corps (NCC) and NSS units of the college in which 22 cadets donated their blood. Human values like sacrifice and selflessness are imbibed in the cadets through such activities.



Candle-March Protesting Against the Pulwama Attack

A Candle-Light March and massive protest against the Pulwama terror attack was held on Saturday, 16 February, 2019 by the NCC cadets and students of the college.

The Candle-Light March started from Shri. Shivaji Science College with raising slogan against terrorism and ended at Rajkamal Square, Amravati. The NCC cadets, hundreds of students including girls gathered at Rajkamal Square in Amravati demanding a firm action on the culprits of the attack.



NSS

NSS Residential Camp-2018-19 was conducted at village Naya Akola from 30 December 2018 to 06 January 2019. It was inaugurated at the hands of Hon. Keshavrao Gawande, Executive Committee Member of Shri Shivaji Education Society and Prin. Dr. V.G. Thakare. The Sub Divisional Officer Mr. Ibrahim Choudhary, Shri. Shambhau Deshmukh, Sarpach, Naya Akola and NSS Program Officer Dr. Tushar Wankhade were present on the occasion. During the camp, Medical Check-up Camp, Swachh Bharat Abhiyan, Personality Development Workshop, Water conservation, Soil Testing Camp, Women Empowerment Program, and various cultural programs were conducted.



On the occasion of the Republic Day, 26 January, 2019, Cycle Distribution Program was organised in which 4 cycles were distributed to the poor and needy students at the hands of Prin. Dr. V.G. Thakare. A patriotic flash-mob dance was presented by the NSS students on this occasion that added glory to the event.

On 14 February, 2019, the Valentine's Day was celebrated with a social cause. "Blood Donation Camp" was organized by the NSS unit of our college in which 102 bottles of blood were collected from the students, ex-students and the staff of the college.

On 18 February, 2019, Chatrapati Shri. Shivaji Maharaj Jayanti and on 14 April, 2019 Dr. Babasaheb Ambedkar Jayanti was celebrated in the college in the presence of Prin. Dr. V.G. Thakare and all the staff members.

Placement

The Placement Committee of Shri Shivaji Science College is an initiative to provide job opportunities to the students. It plays a vital role in making the students aware of the career opportunities, emerging professional trends, events, job profiles, leadership, etc. It also organizes seminars, and

workshops through which students can develop their soft skills. The Placement committee also invites some reputed companies to organize Campus-Placement. This year, 20 students got selected in various companies through the campus placement. The placement committee also collects information of the final year students of all departments. The information regarding career opportunities for science students, companies and market needs in local, regional and national context is displayed on the notice boards.

Shivotsav-2018-19

Annual Social Gathering- "Shivotsav-2018-19" of the college was organized on 2nd and 3rd February, 2019. Prin. Dr. V. G. Thakare presided over the inaugural function. The other dignitaries on the dais were all the Heads of the Departments of Shri Shivaji Science College, Amravati and Dr. S. E. Band, Convener, College Gathering Committee. In this program students enthusiastically participated in events like Singing, Drama, Dance, Mr. and Ms. Fresher, Debate, Intramural Sports, etc. The winners were felicitated with medals and shields.

Department of Physical Education

Achievements (2019-2020)

Table tennis (Men) Team: Winner in SGBAU Inter-collegiate Tournament.

Softball (Women) Team: Winner in SGBAU Inter-collegiate Tournament.

Badminton (Women) Team: Winner in SGBAU Inter-collegiate Tournament-Zone B.

Basketball (Women) Team: Runner Up in SGBAU Inter-collegiate Tournament.

Achievement in National-Level Avishkar Competition

Mukund Fiske, a student of B.Sc. III won the 1st Prize in the discipline of Social Sciences, Humanities, Commerce and Law in the Central zone of "Anveshan Student Research Convocation" under the aegis of Association of Indian Universities, New Delhi, hosted by Kalinga University Raipur, Chattisgarh during 28-29 January, 2019; 2nd prize under the discipline of Social Sciences, Humanities, Commerce and Law in Anveshan National Student Research Convocation by the Association of Indian Universities on March 12-14, 2019 held at Gujrat University Mehsana, and also the 2nd prize in the University level Avishkar Competition- 2018-19 of Sant Gadge Baba Amravati University, Amravati.



Academic Achievements of Students

Surabhi Langare, Trapa Bundele and Krutika Manmode participated in NSD Programme on 01.03.2019 at SGBAU, Amravati.

Sumaiya Rashid and Nilima Raut participated in the state-level seminar on 'My Health, My Responsibility: Complementary to Medicine and Health Care' organized by Shri RLT Science college, Akola, on 28 February, 2019.

Ms. Neha N Khandelwal stood Third in the order of merit in the Master of Science (Zoology) Summer-2018 examination of SGB Amravati University, Amravati.

Ms.Amita A Jawanjal stood 4th in the order of merit in the Bachelor of Science, Summer-2018 examination of SGB Amravati University, Amravati.

Ms. Ashwini C. Jamthe, Ms. Ruchita Tahsildarsinh Rajput and Ms. Tejormayee G. Rotwal of B.Sc.III qualified the IIT JAM-2019 examination in Biological Sciences.

Mr. Devvrat Kulkarni, a student of Wild Life Photography and Ecotourism course represented the Maharashtra state and stood 2nd in the "Youth Click" National-level Photography Competition organized by "Save Us" magazine at Keoladeo (Bhratpur) National Sanctuary, Rajasthan held on 18-24 February, 2019

Ms. Pooja N Varhade, M.Sc.II and Netrawati Anasane, M.Sc.I as a team stood second in the inter-collegiate quiz competition held at GVISH, Amravati on 30.01.2019.

Ms. Nishat Siddiqui, M.Sc.II bagged the third prize in the Best Seminar Competition on the theme "Genetical Diseases & Syndromes" held at Post Graduate Teaching Department of Zoology, SGB Amravati University on 8 March, 2019.

Superannuation of the Staff

Dr. S. D. Wagh, Associate Professor in Zoology, retired on 30th March, 2019 after successfully serving this institution for 20 years. She was engaged in various research activities.



Prof. V. V. Hebbar, Head of the Department of Languages retired on 30th April, 2019. He was a popular teacher of English among the students. He contributed in various activities of the college. He has worked as IQAC Member and contributed significantly in editing the IQAC News Letter. He retired from the Department of Languages as an Associate Professor in English.



Shri Deepak Deshmukh, Laboratory Attendant retired on 30th April, 2019. He served in this institution for about 38 years.



Mrs. S. V. Wankhade, Laboratory Attendant from the department of Zoology retired on 30th June, 2019. She served in this institution for about 34 long years



Upcoming Events

- National Conference of Chemistry
- INSPIRE Camp of DST
- Alumni Meet
- Regional Workshop on New Methodology of Assessment of colleges by NAAC
- Inauguration of Dr. Panjabrao Deshmukh Memorial Science and Innovation Activity Center

Editorial Board

- Dr. W. S. Barde
- Dr. P. R. Padole
- Dr. Sangita P. Ingole
- Dr. G. A. Wagh
- Dr. D. D. Khedkar
- Dr. M. S. Gaikwad

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