



Annual Quality Assurance Report (AQAR) of the IQAC

Academic Year
2018-19

**GOVERNMENT INSTITUTE OF SCIENCE,
NIPAT NIRANJAN NAGAR, CAVES ROAD
AURANGABAD-431 004, MAHARASHTRA**

Part – A

Data of the Institution *(data may be captured from IQA)*

1. Name of the Institution : Institute of Science, Aurangabad
☐ Name of the Head of the institution : Dr. Rajendra A. Satpute
☐ Designation : Director
☐ Does the institution function from own campus : Yes
☐ Phone no./Alternate phone no. : 0240 2400586
☐ Mobile no. : 9404012456
☐ Registered e-mail : director@inosca.org
☐ Alternate e-mail :
☐ Address : Nipatniranjan Nagar, Caves road
☐ City/Town : Aurangabad
☐ State/UT : Maharashtra
☐ Pin Code : 431004
2. Institutional status
☐ Affiliated / Constituent : Affiliated
☐ Type of Institution: Co-education/Men/Women : Co-education
☐ Location: Rural/Semi-urban/Urban : Urban
☐ Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing (please specify):
Grants-in aid/ UGC 2f and 12 (B)
☐ Name of the Affiliating University : Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad
☐ Name of the IQAC Co-ordinator : Dr. Aniroodha V. Pethkar
☐ Phone no. : 9833494261
Alternate phone no. : -
☐ Mobile : 9833494261
☐ IQAC e-mail address : iqacgis@gmail.com
☐ Alternate Email address : -

3. Website address:

Web-link of the AQAR: (Previous Academic Year):

<http://www.inosca.org/iqac/aqar-2018-19.pdf>

4. Whether Academic Calendar prepared during the year? Yes

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink:

<http://www.inosca.org/iqac/academic-calendar-201718-19.pdf>

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	B++	80-85 %	2004	From 16 September 2004, to: 15 September 2009
2 nd	B	2.74	2016	from March 29, 2016 to March 28, 2021

6. Date of Establishment of IQAC: DD/MM/YYYY: 15/01/2005

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Regular meeting of Internal Quality Assurance Cell (IQAC).	26-10-2018, 4pm-5pm 03-11-2018, 12.00noon-1pm 20-04-2019, 3.30pm-5pm	No. of participants= 07 No. of participants= 19 No. of participants= 10
Seminar on “Deep sea and Antarctic Biology” by Dr. Baban Ingole, Scientist-G, National Institute of Oceanography (NIO), Goa.	05-09-2018, 10.30am to 12.30pm	All students and faculty= 203
Motivational article published by Dr. A. V. Pethkar for students “Vidyarthi Amche....Ladke” in Yuvakkranti magazine under Poornavaad Yuva Forum, Parner, Dist. Ahmednagar (India), published by Shree Vimal Publishers Pvt. Ltd. Parner, article no. 7.	23-03-2019	All students= 181
Feedback from students collected and analysed. Necessary suggestions for improvement in teaching-learning given to respective department HODs. Student Satisfaction Survey and Analysis carried in order to estimate their satisfaction on teaching-learning experience. Feedback collected from alumni and parents in order to suggest improvements to the concerned department.	At the end of every semester.	Feedback= respondents Student Satisfaction Survey= 28 respondents Parents’ feedback= 14 respondents

Academic Administrative Audit (AAA) conducted	26/29-02-2020	All staff =38, internal audit conducted by one-person committee= 01
National Science Day celebrated by organizing 2 competitions on Innovative Scientific Theme Presentation- a Poster Competition and a 2-minute Oral Presentation competition.	28-02-2019	Poster competition- 13 participants Oral Presentation- 17 participants
Students encouraged to participate in cultural activities, sports and extension activities. NSS unit was encouraged to carry out unique activities for developing sensitivity towards the society, environment and the Nation and for upliftment of society through awareness programmes. Blood donation camp and dental check-up camp were organized for students and local residents. Awareness campaigns on electoral rights in residential areas adjoining Institute campus and in adopted village Georai Kuber were organized. NSS volunteers encouraged to participate in “Clean City” campaign, and mega tree plantation programme under initiatives of the State Government. Water conservation activity, “plastic- free” campaign wall paintings with social messages advising villagers about government schemes, study of lifestyle and livelihood of village residents, biodiversity awareness activities were carried out in the adopted village.	2018-19	Students and NSS volunteers= 100
Students encouraged for research activities, participation in Avishkar-18 research competition, poster competitions, paper presentations and extracurricular activities.	2018-19	10 PG students and 03 Research students participated in District Level Avishkar Competition in the 2 nd (oral presentation) Round at Deogiri College, Aurangabad and amongst them, 02 PG students and 02 Research students were selected for University Level Avishkar-18 Competition at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. 16 presentations were delivered by students in conferences/ competitions and some students received awards. 04 research students were awarded Ph.D. degree of the affiliating University.

Department of Botany under the aegis of the alumni awarded Prin. S. P. Nanir Gold Medal to the M.Sc. Part II Department Topper in the subject of Botany.	03.02.2020	01 awardee
Mentoring the students of M.Sc. I Microbiology for submission of research proposals for Summer Research Fellowships 2019 (National Academies of Science). 03 PG students were mentored thoroughly for preparation of proposals for Summer Research Fellowships 2019 (under National Academies of Science). Students were guided for topic selection, statement of purpose, plan of work and expected research outcome/s by Dr. A. V. Pethkar and Dr. Mrs. S. A. Peshwe.	2018-19	Amongst the 03 PG students, 01 student was selected for Summer Research Fellowship 2019 at University of Delhi (South Campus) for over 2 months extensive laboratory training in Gene Cloning Techniques.
Faculty members encouraged to focus on student mentoring, devote to research activities, submit research proposals for funding, establish academic linkages, organize seminars, conferences, etc. and student-centric activities such as excursions, educational visits, etc. placements, etc. and guide students for competitive exam preparations.	2018-19	Papers published in journals= 26, Chapters published in books= 02, presentations as resource persons= 16, papers presented in conferences= 26, 1 faculty member and his research student were granted Indian Patent. Students qualifying in competitive exams= 14, placements= 35.
Faculty members encouraged to participate in FDPs and STPs for increasing the knowledge horizons and career progression.	2018-19	Participation in FDPs/STPs= 11
Tapping of funds from different funding agencies for development of infrastructure, received funds from DPDC for lab equipment, chemicals/consumables. RUSA committee carried out active persuasion to get RUSA funds.	2018-19	DPDC and RUSA Committees constituted for application and active persuasion to obtain funds from DPDC, RUSA and the State Government.
Faculty members encouraged to participate in PG/UG syllabus restructuring, revisions as per current trends in respective subjects.	2018-19	08 faculty members are members of BoS in the respective subjects of various Universities and the affiliating University and they actively contribute towards the revision/ reframing of syllabi, viz. Mrs. V. N. Wadekar- Ad-hoc BoS in Biophysics, Mr. H. P. Panakkal- Ad-hoc BoS in Biotechnology, Prof. U. K. Patil- member BoS in Microbiology at Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Dr. A. V. Pethkar- BoS in

		Microbiology, Dr. A. G. Jadhav- Ad-hoc BoS in Bioinformatics, Dr. M. A. Sonar- BoS in Geology and member of Academic Body of Gondwana Geological Society, Nagpur, Mr. S. G. Kulkarni- Ad-hoc BoS in Biophysics and member BoS in Biophysics of SRTM University, Nanded, Dr. S. M. Deshpande- member BoE and Member, RRC of affiliating University.
Programmes on Gender equity, 02 programmes organized with participation of students from various colleges in Aurangabad, (i) One-day workshop on Women Empowerment- Challenges and Strategies, (ii) Elocution competition on “Stree chi yashogatha (Success story of Women)” on the occasion of Women’s Day.	2018-19	Attended by all students and faculty= 218

Note: Some Quality Assurance initiatives of the institution are:

- ☐ Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- ☐ Academic Administrative Audit (AAA) conducted and its follow up action
- ☐ Participation in NIRF
- ☐ ISO Certification
- ☐ NBA etc.
- ☐ Any other Quality Audit

8. Provide the list of funds by Central/ State Government-

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount (Rs.)
Institute of Science, Aurangabad	Total Funds	State Govt.	2018-19, 1 yr.	4,94,47,000
	Salary	State Govt.	2018-19, 1 yr.	4,21,20,000
	Academic facilities	State Govt.	2018-19, 1 yr.	5,96,000
	Physical facilities	State Govt.	2018-19, 1 yr.	-
	Miscellaneous*	State Govt.	2018-19, 1 yr.	67,31,000
Institute of Science, Aurangabad	Earn and Learn	Affiliating Univ.	2018-19, 1 yr.	5,000
	NSS	Affiliating Univ.	2018-19, 1 yr.	44,500

*Includes electricity, telephone, water, contractual services, travel within India, office expenses, land and revenue and taxes, publication fees.

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

*upload latest notification of formation of IQAC

<http://www.inosca.org/iqac/iqac-composition-2016.pdf>

10. No. of IQAC meetings held during the year: 03

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website: (Please upload, minutes of meetings and action taken report)

Yes

<http://www.inosca.org/iqac/mom-2018-19.pdf>

<https://www.inosca.org/iqac/compliance-2018-19.pdf>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? Yes/No: No

If yes, mention the amount: Year: NA

12. Significant contributions made by IQAC during the current year (maximum five bullets)

- Mentoring the students of M.Sc. I Microbiology for submission of research proposals for Summer Research Fellowships 2019 (National Academies of Science)- Faculty members mentored 03 PG students for preparation of research proposals. Amongst them, 01 student was selected to undergo extensive hands-on laboratory training in University of Delhi (South Campus) in Gene Cloning Techniques for over two months.
- Heads of Departments were encouraged to undertake collaborative research activities and to enter into MoUs with academic institutions/ professional organizations including industries. The structure of MoUs with academic institutions was finalized with regard to expected benefits for concerned parties and it was clarified that no financial commitment can be given from the Institute side.
- Faculty members were encouraged to carry out academic activities under the MoUs.
- The faculty members were encouraged to participate in the framing and revision of syllabus as a part of various committees in the University
- The faculty members were encouraged to participate in Faculty Development Programs for enhancing the knowledge horizons and career progression.
- Staff members were encouraged to submit research projects to funding agencies, pursue research work, and publish papers in peer reviewed, refereed and UGC-listed, scopus-indexed and high impact factor journals. Faculty members were encouraged to participate in and organize conferences.
- All Departments were advised to submit uniform time-table of lectures considering slot for service course lectures. All departments were also advised to take measures to ensure 100% student attendance for theory and practical sessions.
- Faculty members were urged to organize workshops on Preparations for Competitive Examinations and guide students in the preparations for competitive examinations.

- Placement cell was encouraged to organize on-campus and off-campus placement activities and career guidance programmes.
- The faculty members were encouraged to attend orientation, refresher, short-term and online courses and to organize guest lectures for students.
- As an initiative to motivate students and honour them for the performance in final year of PG, the Department of Botany under the aegis of the alumni awarded Prin. S. P. Nanir Gold Medal to the M.Sc. Part II Department Topper in the subject of Botany.
- NSS unit was encouraged to carry out unique activities for developing sensitivity towards the society, environment and the Nation and for upliftment of society through awareness programmes. Blood donation camp and dental check-up camp were organized for students and local residents. Awareness campaign on electoral rights in residential areas adjoining Institute campus was organized. NSS volunteers encouraged to participate in “Clean City” campaign, and mega tree plantation programme under State Government and NGO initiatives. Water conservation activity, “plastic- free” campaign wall paintings with social messages advising villagers about government schemes, study of lifestyle and livelihood of village residents, biodiversity awareness activities were carried out in the adopted village.
- Students were encouraged to participate in the Avishkar-19 research competition.
- Feedback from students collected and analysed. Necessary suggestions for improvement in teaching-learning given to respective department HODs. Student Satisfaction Survey and Analysis carried in order to estimate their satisfaction on teaching-learning experience. Feedback collected from alumni and parents in order to suggest improvements to the concerned department.
- Seminar on “Deep sea and Antarctic Biology” by Dr. Baban Ingole, Scientist-G, National Institute of Oceanography (NIO), Goa was organized to provide a glimpse of the research activities on the Indian research station at Antarctica.
- National Science Day was celebrated on 28-02-2019 by organizing 2 competitions on Innovative Scientific Theme Presentation- a Poster Competition and a 2-minute Oral Presentation competition. Prizes were awarded for 3 winning entries from each competition and 5 consolation prizes were given to deserving participants in each competition.
- Two programmes on Gender Equity were organized by the Women’s Grievance Redressal Cell with participation of students from various colleges in Aurangabad, viz. a one-day workshop on Women Empowerment- Challenges and Strategies and an Elocution competition on “Stree chi yashogatha (Success story of Women)” on the occasion of Women’s Day.
- Tapping of funds from different funding agencies for development of infrastructure, received funds from DPDC for lab equipment, chemicals/consumables. RUSA committee carried out active persuasion to get RUSA funds. Proposals submitted for Smart Classrooms, canteen and infrastructure development under JEWEL of Maharashtra scheme.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
To encourage Heads of the Departments to formulate the structure of MoUs with academic and professional organizations, keeping in view collaborative research activities, expected mutual benefits and interests of the students and faculty members; however, without any financial commitment, being a Government Institute.	Faculty members prepared drafts of MoUs for academic and professional collaborations. Activities were carried out under MoUs signed in the past. Students benefitted from academic and professional linkages with other organizations in the form of trainings, student visits, guest lectures, etc.
To update the institute website to make it dynamic and more informative, considering the need to increase visibility of the Institute and to appoint a faculty member to monitor the website updation.	Due to low budgetary provisions, various options were explored for making the website dynamic while keeping the costing to a minimum.
Tapping of funds from different funding agencies for development of infrastructure.	Received funds from DPDC for lab equipment, chemicals/consumables. RUSA committee carried out active persuasion to get RUSA funds. Proposals submitted for Smart Classrooms, canteen and infrastructure development under JEWEL of Maharashtra scheme.
Mentoring the PG students for submission of research proposals for Summer Research Fellowships 2019 under National Academies of Science.	Faculty members mentored 03 PG students for preparation of research proposals. Amongst them, 01 student was selected to undergo extensive hands-on laboratory training in University of Delhi (South Campus) in Gene Cloning Techniques for over two months.
Encouraging faculty members to participate in the framing and revision of syllabus as a part of various committees in the University.	08 faculty members are members of BoS in the respective subjects of various Universities and the affiliating University and they actively contribute towards the revision/reframing of syllabi, viz. Mrs. V. N. Wadekar- Ad-hoc BoS in Biophysics, Mr. H. P. Panakkal- Ad-hoc BoS in Biotechnology, Prof. U. K. Patil- member BoS in Microbiology at Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Dr. A. V. Pethkar- BoS in Microbiology, Dr. A. G. Jadhav- Ad-hoc BoS in Bioinformatics, Dr. M. A. Sonar- BoS in Geology and member of Academic Body of Gondwana Geological Society, Nagpur, Mr. S. G. Kulkarni- Ad-hoc BoS in Biophysics and member BoS in Biophysics of SRTM University, Nanded, Dr. S. M. Deshpande- member BoE and Member, RRC of affiliating University.

Encouraging faculty members to participate in Faculty Development Programs for enhancing the knowledge horizons and career progression.	11 faculty members participated in Orientation and Refresher courses, as well as Short Term Programmes for updating their own subject knowledge.
Encouraging staff members to submit research projects to various funding agencies, pursue research work, and publish papers in peer reviewed, refereed and UGC-listed, scopus-indexed and high impact factor journals. Encouraging faculty members to participate in and organize conferences.	The faculty members took active interest in research activities. Faculty members submitted research proposals to govt. funding agencies. Faculty members published 26 papers in peer-reviewed journals and 02 chapters in books, presented 26 papers to a wide scientific community and delivered 16 lectures as resource persons. Faculty members received awards/honours for their academic/research accomplishments. One faculty member, Dr. A. V. Pethkar and his research student Mr. A. P. Bhagat were granted an Indian Patent for their work in the field of Bionanotechnology. Since 2005-06, a total of 40 research projects with total grant of Rs. 2,11,10,200/- (12 Major, Rs. 1,86,90,000/- and 28 Minor, Rs. 24,20,200/-) were funded by various Govt. agencies.
To motivate students and honour them for the performance in final year PG examination.	Department of Botany under the aegis of the alumni awarded Prin. S. P. Nanir Gold Medal to the M.Sc. Part II Department Topper in the subject of Botany. The students are inspired to prepare and perform well in the examinations and the award creates a sense of pride for the awardee.
Feedback from students collected and analysed. Student Satisfaction Survey and Analysis carried in order to estimate their satisfaction on teaching-learning experience. Feedback collected from alumni and parents in order to suggest improvements to the concerned department.	Necessary suggestions for improvement in teaching-learning given to respective department HODs.
Advising all Departments to submit uniform time-table of lectures considering slot for service course lectures and to take measures to ensure 100% student attendance for theory and practical sessions.	Faculty members followed the academic calendar and the time-table. The student attendance in theory and laboratory sessions was satisfactory.
Urging faculty members to organize workshops on Preparations for Competitive Examinations and encouraging the Placement cell to organize on-campus/off-campus placement activities and guidance for competitive examination and career opportunities.	Students got the opportunity of participation in programmes aimed at honing their competitive exam skills. A total of 35 students got placements in industries and academic institutions through the initiatives of the Placement Cell. 14 students qualified in national level competitive exams.

Encouraging NSS unit to carry out unique activities for developing sensitivity in the students towards the society, environment and the Nation and for upliftment of society through various awareness programmes.	Students were actively involved in various on-campus and off-campus extension activities, cleanliness campaigns, tree plantation, water conservation, awareness rallies and street-plays, etc. Blood donation camp and dental check-up camp were organized for students and local residents. Awareness campaign on electoral rights in residential areas adjoining Institute campus was organized. NSS volunteers encouraged to participate in “Clean City” campaign, and mega tree plantation programme under State Government and NGO initiatives. Water conservation activity, “plastic- free” campaign, wall paintings with social messages advising villagers about government schemes, study of lifestyle and livelihood of village residents, biodiversity awareness activities were carried out in the adopted village- Georai Kuber.
Encouraging Women’s Grievance Redressal Cell to organize programmes on Gender Equity.	Two programmes on Gender Equity were organized by the Women’s Grievance Redressal Cell with participation of students from various colleges in Aurangabad, viz. a one-day workshop on Women Empowerment-Challenges and Strategies Elocution competition on “Stree chi yashogatha (Success story of Women)” on the occasion of Women’s Day.
Motivating students to participate in Avishkar-18 research competition, poster competitions, paper presentations and extracurricular activities.	10 PG students and 03 Research students participated in District Level Avishkar Competition in the 2 nd (oral presentation) Round at Deogiri College, Aurangabad and amongst them, 02 PG students and 02 Research students were selected for University Level Avishkar-18 Competition at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
Encouraging faculty members to organize lectures of eminent scientists to provide students with a glimpse of current trends in scientific research. Designing and implementation of different activities aimed at improvement of student skill and knowledge through Lecture Series and Workshops, invited talks of experts and professionals from industry/ academia and implement good mentoring practices.	Seminar on “Deep sea and Antarctic Biology” by Dr. Baban Ingole, Scientist-G, National Institute of Oceanography (NIO), Goa was organized to provide a glimpse of the research activities on the Indian research station at Antarctica. Experts from industries delivered lectures to the students and updated them about current trends in professional fields.
Motivating faculty members to arrange programmes aimed at nurturing and enhancing the scientific communication skills of the students.	National Science Day was celebrated on 28-02-2019 by organizing 2 competitions on Innovative Scientific Theme Presentation- a Poster

	Competition and a 2-minute Oral Presentation competition. A total of 30 participants enrolled for the competitions. Prizes were awarded for 3 winning entries from each competition and 5 consolation prizes were given to deserving participants in each competition.
Arranging and execution of study tour for keeping abreast with recent trends across fields related with the subject.	Faculty members of all departments organized study tours, excursions, field visits, industry visits, etc.
Active promotion of student participation in seminars, presentations, extracurricular activities, summer training, national/international symposia, conferences and workshops.	PG and Research students participated and succeeded in poster and oral presentation competitions. Students delivered presentations in conferences.
Building and sustenance of platform for interaction of stakeholders associated with the Institute.	Alumni interacted with students for guidance on preparations for competitive exams and placements.

14. Whether the AQAR was placed before statutory body? Yes /No: Yes

Name of the statutory body: Staff Council

Date of meeting(s): 15-09-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?

Yes/No: No

Date: NA

16. Whether institutional data submitted to AISHE: Yes/No: Yes

Year: 2018-19

Date of Submission: 15/01/2019

17. Does the Institution have Management Information System?

Yes/No: Yes

If yes, give a brief description and a list of modules currently operational (Max.500 words)

The State Govt. and Universities are facing constantly changing problems, diverse managerial styles, and ever present information needs offer a challenging context for developing computer based information systems. To portray the status of higher education in Maharashtra State, Department of Higher and Technical Education, Govt. of Maharashtra has endeavored to collect higher educational statistics through web-based Management Information System. This covers all the Institutions in the State which are pertaining higher education in streams Arts, Science, Commerce, Education, Law and other Non-AICTE Courses. Data is being collected on several parameters (modules) such as teachers, student enrolment, programmes, examination results, education finance, infrastructure etc. This web based MIS uses computer technology to provide information and decision support to Universities and, helping them becomes more effective.

Part – B

CRITERION I- CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words.

The institute follows the curriculum designed by affiliating university viz. Dr Babasaheb Ambedkar Marathwada University, Aurangabad. While revision and up-gradation of the syllabi is done at the University level, the college has a mechanism for effective, documented curriculum delivery. At the commencement of each academic year, Director along with the IQAC coordinator and Heads of all the Departments conducts meeting to finalize the Institute Academic Calendar in alignment with that prescribed by the university. Based on this schedule the Heads of the each department conduct academic planning meeting to plan and organize the schedule of lectures and distributes the syllabus among the faculty members of their departments based on their subject expertise and interests. Time table at departmental level for every semester is prepared by the respective Heads of departments in consultation with the departmental faculty members. The faculty members are instructed by the head of departments to complete the syllabus within stipulated time. Teaching plan and the assignments for the semester are prepared by the respective subject in charge before the start of the new semester. Each Faculty in their initial lecture narrates the course objectives and outcomes of their subjects/disciplines in accordance with the university prescribed syllabus. Faculty members maintain attendance records of the students for theory and practical sessions. Faculty members are encouraged to impart the curriculum through innovative teaching methods such as presentations, case studies, group discussions, brainstorming, peer learning, quiz, real world learning, workshops, seminars, industrial visits and educational tours besides the traditional chalk and talk method. To support the needs of changing curriculum and pedagogy, the College infrastructure and facilities are continuously upgraded. We have well-equipped computer laboratories, library and classrooms with projection facilities for both faculty and students. In addition to traditional teaching methods the video lectures related to subjects from SWAYAM, e-PG-Pathshala, NPTEL, V Labs and other sites are observed to explore thoroughly. Guest lectures are regularly arranged to bridge the gap in the prescribed curriculum. The traditional classroom teaching is supplemented by regular tests, tutorials, group discussions, extensive lab work, projects, seminars and industrial exposure by way of industry visits and summer training. We have a very rich central library with open access system and many departments have their Departmental libraries too for the benefit of the students. Some Journals are subscribed by our institute which help the students to explore dt depth inthe concerned topics. In addition, the institute encourages teachers to participate in Orientation/ Refresher Courses/ Faculty Development Program/Workshops/ Seminars so as to update their knowledge and to improve teaching practices for effective delivery of curriculum. The institute and faculty members adopt numerous policies for bridging the knowledge gap of the enrolled ‘weak’ students to enable them to cope with the programme of their choices as well as promote, reward and facilitate ‘advanced’ learners. This includes mentorship, tutorials, remedial teaching and felicitation. The entire approach is student centric emphasizing upon knowledge & skill enrichment. The subject/topic relevant reference notes, presentations, link addresses of important learning sites, e-books are delivered to the students. Continuous review of the progress of syllabus completion, performance of the students is done in the department level meetings. Student feedback is collected at the end of every semester and analyzed for suggesting improvements in the teaching.

1.1.2 Certificate/Diploma Courses introduced during the Academic Year				
Name of the Certificate Course	Name of the Diploma Course	Date of introduction and duration	Focus on employability/ entrepreneurship	Skill development
-	-	-	-	-
1.2 Academic Flexibility				
1.2.1 New programmes/courses introduced during the Academic Year				
Programme with Code	Date of Introduction	Course with Code		Date of Introduction
-	-	-		-
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated colleges (if applicable) during the Academic Year				
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS/Elective Course System	PG
M.Sc.	-	Biophysics	30.05.2015	-
	-	Biotechnology	30.05.2015	-
	-	Botany	30.05.2015	-
	-	Geology	30.05.2015	-
	-	Microbiology	30.05.2015	-
Already adopted (mention the year): 2015-16				
1.2.3 Students enrolled in Certificate/Diploma Courses during the year				
	Certificate Courses		Diploma Courses	
No. of students	-		-	
1.3 Curriculum Enrichment				
1.3.1 Value-added courses imparting transferable and life skills offered during the year				
Value added courses	Date of introduction		Number of students enrolled	
Pisciculture (under Service Course)	Semester III		44 (Microbiology- 12, Biophysics- 13, Biotechnology- 19)	
Principles and methods in Archaeology (under Service Course)	Semester III		20 (Geology- 17, Microbiology - 1)	
Plant Tissue Culture (Under Service Course)	Semester III		06 (Microbiology - 6)	
Positive Psychology	Semester III		05 (Microbiology - 2, Botany- 03)	
Fine Arts	Semester III		01 (Botany- 01)	
Environmental Science	Semester III		10 (Botany- 10)	

1.3.2 Field Projects / Internships under taken during the year				
Project/Programme Title			No. of students enrolled for Field Projects/Internships	
Department of Botany: Field explorations were organized as a part of curriculum to visit Agrofest-2018.			40	
Department of Geology: Educational Geological Field study and Mapping Tour around Chitradurga- Mysore–Ooti in Karnataka.during 15.01.2019 to 28.01.2019, accompanied by Dr. K. M. Wanjarwadkar.			18	
Mr. Yogesh Parshuram Date, Department of Geology: Project on Palsunde Minor Irrigation Tank and Nira-Bhima Link Tunnel at Central Designs Organizations, Nasik, (Water Resources Department, Maharashtra) during 01.06.2018 to 11.07.2018.			01	
Mr. Musaddiq Mohd. Moin Naik, Department of Geology: Project on Groundwater exploration and prospecting in hard rock terrain, using resolution electrical resistivity tomography technique, under the guidance of Dr. Dewashish Kumar at CSIR- National Geophysical Research Institute, Hyderabad, Telangana during 06.12.2018 to 22.01.2019.			01	
Mr. Yogesh Parshuram Date and Mr. Ashutosh Jayprakash Pande, Department of Geology: Project on CBM Exploration and Exploration Techniques under the guidance of Harendra Singh, Senior Principal Scientist, HoD Non-conventional Gas Division at CSIR- Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand.			02	
Ms. Shruti Lavekar, Department of Microbiology: Summer Course on Natural Product Chemistry: Isolation, Synthesis and Application during 27.05.2019 to 31.05.2019			01	
Department of Microbiology: Visit to sewage treatment plant, Nakshatrawadi, Paithan road, Aurangabad.			21	
Department of Microbiology: Industry Visit to Foster’s Breweries, Aurangabad.			21	
1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	No	No	No	Yes
1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution (maximum 500 words)				
The IQAC has developed its own feedback mechanism to evaluate the performance of the faculty as well as physical and academic facilities available in the Institute. A 100 marks questionnaire (Feedback Form) containing ten questions probing the teaching learning process is circulated to the students of each department at the end of academic session (Semester). The students then fill up the questionnaire in the presence of an IQAC member who ensures transparency in the process. Following parameters are included in the feedback form- Content of teaching, Adequacy of teaching methodology, Responsiveness to students				

queries, Stimulate interest, Regularity & Punctuality, Adequacy and effectiveness of Teaching Aids used (LCD/OHP/White board), Availability of Faculty after class hours for guidance, Completion of course on time, Availability of reference resources from the faculties.

Feedback form for Alumni also contains ten questions aimed at understanding the overall experience of the students with regard to the teaching learning environment, physical facilities and suggestions for the further improvement.

The level of satisfaction of students about the teaching-learning experience in the Institute is gauged from the Student Satisfaction Survey. Response of students to a set of questions related to teaching-learning is recorded and analyzed.

The feedback obtained from the parents probes the level of satisfaction of the parents in terms of facilities available in the Institute, learning environment, achievements of their ward, confidence level, and behavioral changes in the ward. The feedback also tries to know the willingness of the students and their parent to recommend other candidate to peruse higher education in our Institute.

The feedback forms are collected by designated IQAC members for analysis. The marks obtained by each faculty member of the concerned department are represented graphically to obtain the proficiency of the faculty with regard to their teaching skills. Accordingly faculty members are encouraged to adopt effective strategies.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
M.Sc. Biophysics	20	Data not available *	15
M.Sc. Biotechnology	20	Data not available *	20
M.Sc. Botany	20	Data not available *	20
M.Sc. Geology	20	103	19
M.Sc. Microbiology	20	Data not available *	21
Total	100	Data not available *	96

* Data not available since admission process was conducted centrally by the Affiliating University.

2.2 Catering to Student Diversity					
2.2.1. Student - Full time teacher ratio (current year data)					
Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of Teachers teaching both UG and PG courses
2018-19	NA	180	NA	24	NA
2.3 Teaching - Learning Process					
2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)					
Number of teachers on roll	Number of teachers using ICT (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
6	Microbiology- ICT enabled lectures (6 teachers), Moodle cloud (2 teachers)	Google classroom, Moodle cloud, Virtual lab, Powerpoint presentations.	00	00	PDFs, HTML documents and videos downloaded from the internet.
4	Botany- ICT enabled lectures	Powerpoint presentations,	00	00	PDFs, HTML documents and videos downloaded from the internet.
5	Biotechnology- ICT enabled lectures	Google classroom, Powerpoint presentations,	00	00	PDFs, HTML documents and videos downloaded from the internet.
3	Geology	Powerpoint presentations	00	00	PDFs, HTML documents and videos downloaded from the internet.
3	Biophysics	Powerpoint presentations	00	00	PDFs, HTML documents and videos downloaded from the internet.

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

All departments execute the teaching-learning activity through lectures, tutorials, practical sessions using online and offline resources. Additionally students are given exposure to the recent developments in the respective subjects through organization of guest lectures, field visits, excursions, industry visits, visits to other departments, summer trainings and participation in conferences, workshops, poster/oral presentations.

Microbiology Department: the department has appointed mentors for each class, viz. Dr. Ajay Jadhav and Dr. J. J. Bukhtar for M.Sc. I, respective project/dissertation guides for M.Sc. II and Dr. S. A. Peshwe for Ph.D. students. The mentors/teachers help in solving difficulties of the students. A special session on Literature Searching was arranged for students of M.Sc. I and II in the Central Library of the Institute by Dr. A. V. Pethkar. He also arranged visits of students to the other departments of the Institute to get them acquainted with facilities available in other departments and interaction with the faculty. In an innovative model, students are encouraged to work as mentors to deliver short presentations and explain important concept in the class. Dr. A. V. Pethkar and Dr. S. A. Peshwe mentored 03 students of M.Sc. I Microbiology for submission of research proposals for Summer Research Fellowships 2019 (under National Academies of Science) and amongst them 01 student got selected in University of Delhi for summer research fellowship to work for over two months in advanced Gene Cloning Techniques.

Biophysics Department: Every academic session is suffixed with a Q&A session to resolve difficulties of students. The students are personally attended through Mentor-Mentee academic interactions to resolve problems in study styles, understanding of concepts, rejuvenating reading and writing skills. The necessary basic soft skills, basic background information, career counseling, National fellowship and competitive examination guidance are prominent activities during mentoring process.

Biotechnology: All the faculties are mentoring students in diverse orientation for overall development of the students. The enhancement of basic soft skills, career counseling, international and national fellowships and competitive examination guidance are prominent activities during mentoring process. Students are encouraged to participate in various event like workshop, conferences, debates etc. Mr. Harris Panakkal has developed new protocols for better understanding and creating interest in the field of Developmental Biology. He has conducted sessions to increase the awareness of CBCGS credit based system amongst students and staff. He has contributed to resolving the issues related to newly launched Maha DBT online scholarship system in which the Institute was assigned the role of a “Pilot College”. Mr. I. R. Gupta initiated the “Walk the Talk” programme for interaction of students with alumni of the department. Dr. R. P Bhagat as a coordinator of Placement cell, focused efforts for organizing training programs of industry experts and “on- campus and off-campus placement activities. Emphasis was given on preparation of students for competitive exams and their placements. Some innovative teaching-learning processes adopted by Mrs. P. M. Sonawane are- (i) Cross over teaching- educational trip, (ii) Learning through flipped classroom- students develop concept from resources provided and deliver to the class, and (iii) Teaching through collaboration- students work together on group assignments.

Botany Department: since most of the students are from rural background, they are counseled, oriented and consistently attended for their academic need. The staff gives an extra time on weekends to weak students for their academic queries, if any. Students are mentored one-to-one for their projects and dissertations.

Geology Department: two teachers are assigned work as mentors for the students, viz. Dr. M.A. Sonar (Assistant Professor) for the first year and Dr. K.M. Wanjarwadkar (Associate Professor) for the second

year. The mentors give personal attention to students, monitor their attendance, encourage them to be attentive and regular in theory classes and practical and also evaluate the students for internal tests. Slow learners are given individual counseling and are motivated to improve their performance. Faculty members encourage students to refer reference books in the Central Library and collect supplementary reading materials from the web for getting in-depth knowledge. The faculty members impart training on applied aspects through on-field mentoring and prepare students for a career as professional geologists. In order to nurture a research environment environment, Dr. K.M. Wanjarwadkar encourages students to participate actively in Avishkar competition, conferences, seminars, workshops, summer/winter training, National Science day function, etc. Academic ties with professional and academic institutions have enabled students to visit the organizations for summer trainings. Dr. K.M. Wanjarwadkar motivates students for success in various Geosciences examinations, viz. SET, CSIR-NET, GATE, Geoscientist Examination conducted by UPSC, etc. as wells as for career opportunities.

The students participating in Avishkar-18 research competition were led by the Faculty Coordinator, Dr. A. N. Salve who guided the team in all aspects of the competition. A total of 10 PG students and 03 Research students participated in Avishkar-18. Faculty members, viz. Dr. A. N. Salve, Dr. A. V. Pethkar, Dr. A. G. Jadhav and Dr. K. M. Wanjarwadkar mentored the PG and research students working under their guidance for experimental research and presentation of the work in Avishkar competition.

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
35	22	13	02	12

2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

<i>Year of award</i>	<i>Name of full time teachers receiving awards from state level, national level, international level</i>	<i>Designation</i>	<i>Name of the award, fellowship, received from Government or recognized bodies</i>
Since 2016	Shri. S. G. Kulkarni	Associate Professor	Nominated as Member of INSA-IUPAB National Committee (Jan. 2016 to Dec. 2019).
2018	Dr. A. V. Pethkar, International Level	Associate Professor	Scientist of the Year Award 2018, awarded by International Foundation for Environment and Ecology, Kolkata and Confederation of Indian Universities, New Delhi on 18-02-2019, at the Auditorium of Christ College, Pune.
2018	Dr. A. V. Pethkar, International Level	Associate Professor	Life Member Award, awarded by International Foundation for Environment and Ecology, Kolkata on 18-02-2019, at the Auditorium of Christ College, Pune.

2018	Dr. A. V. Pethkar, International Level	Associate Professor	IBRF Excellence Award 2018, 24 August, 2018, awarded by International Benevolent Research Foundation, Kolkata at Auditorium of Christ College, Pune.
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2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination
M.Sc. Biophysics	-	Part I, Sem I Part II, Sem III	Oct./Nov 2018
M.Sc. Biophysics	-	Part I, Sem II Part II, Sem IV	Mar/Apr. 2019
M.Sc. Biotechnology	-	Part I, Sem I Part II, Sem III	Oct./Nov 2018
M.Sc. Biotechnology	-	Part I, Sem II Part II, Sem IV	Mar/Apr. 2019
M.Sc. Botany	-	Part I, Sem I Part II, Sem III	Oct./Nov 2018
M.Sc. Botany	-	Part I, Sem II Part II, Sem IV	Mar/Apr. 2019
M.Sc. Geology	-	Part I, Sem I Part II, Sem III	Oct. 2018
M.Sc. Geology	-	Part I, Sem II Part II, Sem IV	Mar/Apr. 2019
M.Sc. Microbiology	-	Part I, Sem I Part II, Sem III	Oct./Nov 2018
M.Sc. Microbiology	-	Part I, Sem II Part II, Sem IV	Mar/Apr. 2019

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at institutional level (250 words)

Institutional Level- Two internal assessment tests are conducted in each semester by the Internal Exam Coordination Unit. A common examination schedule is prepared for all departments. The seating arrangement for the examination is such that students of a particular department take the examination in a different department in order to maintain discipline and prevent any misconduct during examination.

Microbiology- Internal Examination is conducted as per the academic calender. Weightage is given for attendance in theory & practical, participation and attendance in seminar presentation, assignments, tutorials, MCQ tests.

Biotechnology- Developed internal assessment system giving weightage to student attendance in theory & practical, participation and attendance in seminar presentation, internal tests, tutorials, MCQ tests.

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)				
The academic calendar was prepared as per the University Calendar and all academic, co-curricular and extra-curricular as well as extension activities were conducted by adhering to the academic calendar during the entire academic year. The internal examination in the form of tests/assignments/tutorials/seminars are conducted as per the academic calendar of the Institute.				
2.6 Student Performance and Learning Outcomes				
2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink) https://www.inosca.org/program and course outcomes.pdf				
2.6.2 Pass percentage of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
-	M. Sc. Biophysics	13	13	100.00
-	M. Sc. Biotechnology	19	12	63.16
-	M. Sc. Botany	22	17	77.27
-	M. Sc. Geology	17	13	76.47
-	M. Sc. Microbiology	20	09	45.00
2.7 Student Satisfaction Survey				
2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire), results and details be provided as weblink. https://www.inosca.org/student satisfaction survey 2018-19.pdf				
CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION				
3.1 Resource Mobilization for Research				
3.1.1 Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	-	-	-	-
Projects sponsored by the University/ Col	-	-	-	-

Students Research Projects (other than compulsory by the College)	-	-	-	-
International Projects	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	-	-

3.2 Innovation Ecosystem

3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Opportunities in clinical Embryology by Mr. Hussain Sheikh, Chief Embryologist Apex IVF Center Raigad MP.	Placement Cell and Department of Biotechnology	28/12/2018
Opportunities in Pharmaceutical Industries for Life Science Students by Mr. Maitreya Mudkavi, Shodh AdvanTech LLP, Aurangabad.	Placement Cell and Department of Biotechnology	15/03/2019
Opportunities in Pharma Sector for life Science Students by Mr. Rushikesh Deshpande, Asst. Manager, Eurolife Healthcare, Aurangabad.	Placement Cell and Department of Biotechnology	02/03/2019
Industry- Institute curriculum/ skill based Module development, PANEL DISCUSSION with Mr. Maitreya Mudkavi, Shodh AdvanTech LLP, Aurangabad and Institute staff.	Placement Cell and Department of Biotechnology	15/03/2019

3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Teachers				
Scientist of the Year Award 2018 at the Auditorium of Christ College, Pune.	Dr. A. V. Pethkar (Associate Professor, Microbiology)	International Foundation for Environment and Ecology, Kolkata and Confederation of Indian Universities, New Delhi	18-02-2019	International
IBRF Excellence Award 2018 at Auditorium of Christ College, Pune.	Dr. A. V. Pethkar (Associate Professor, Microbiology)	International Benevolent Research Foundation, Kolkata	24 August, 2018	International

Indian Patent for the invention “A Method for purification and recovery of nanoparticles”	Dr. A. V. Pethkar (Associate Professor, Microbiology)	The Patent Office, Gov. of India.	08-02-2019	National
Chief guest & Key Note Speaker	Mr. S.G. Kulkarni (Associate Professor, Biophysics)	Biotech Srujan 2019 MGM University, Institute of Biosciences and Technology, Aurangabad	12.02.2019	Regional Level
Session Chairman	Mrs. P. M. Sonawane	National Conference on Emerging Trans-Disiplinary Approaches in Biosciences	23.12.2019 to 24.12.2019	National
Invited as an experts for the evaluation	Dr. A. N. Salve	Brainstorm-2019, a Multidisciplinary State Level Poster Competition organized by Dept. of Computer and Management Science, Vivekanand Arts, Sardar Dalip Singh Commerce and Science College, Aurangabad.	17.01.2019	

Students

Indian Patent for the invention “A Method for purification and recovery of nanoparticles”	Mr. Anirudh P. Bhagat (Research Student, Microbiology)	The Patent Office, Gov. of India.	08-02-2019	National
1st Prize in Poster Competition “Enzyme-laden biowaste of an industrial microorganism for the synthesis of gold nanoparticles”, Symposium cum Workshop on Bio-waste as Bio-resource, organized by Shankarlal Khandelwal Arts, Science and Commerce College, Akola (MS) at S. Khandelwal Arts, Science and Commerce College, Akola (MS).	Ms. Mehvish Fatima (Research Student, Department of Microbiology)	National Symposium cum Workshop on Bio-waste as Bio-resource, organized by Shankarlal Khandelwal Arts, Science and Commerce College, Akola (MS), sponsored by Sant Gadge Baba Amravati University, Amravati, in collaboration with Microbiologist Society, India.	23-02-2019	National level

1st Prize in Poster Competition, National Conference on Recent Trends in Environmental Biotechnology, organized by Kohinoor Arts, Commerce and Science College, Khultabad (MS).	Ms. Mehvish Fatima (Research Student, Department of Microbiology)	National Conference on Recent Trends in Environmental Biotechnology, organized by Kohinoor Arts, Commerce and Science College, Khultabad (MS) and Microbiologist Society, India; sponsored by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	14-03-2019	National level
Participation in National Conference on Recent Trends in Environmental Biotechnology, organized by Kohinoor Arts, Commerce and Science College, Khultabad (MS).	Mrs. Manisha Chalse (Research Student, Department of Microbiology)	National Conference on Recent Trends in Environmental Biotechnology, organized by Kohinoor Arts, Commerce and Science College, Khultabad (MS) and Microbiologist Society, India; sponsored by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	14-03-2019	National level
Research Paper presentation.	Mr. Akash Karande (PG Student, Department of Geology).	9 th All India Students Symposium on Geology organized by Dept. of Geology, Faculty of Earth Sciences, Mohanlal Sukhadia University, Udaipur.	23.02.2019 to 24.02.2019	Best paper Presentation Award, National Level
Poster Presentation Competition.	Mr. Jameel Hussain (PG Student, Department of Microbiology).	7 th State Level Poster Competition (POCO) and Seminar on “Genetically Modified Organisms (GMO)” organized by Dnyanopasak Shikshan Mandal’s College of Arts, Commerce and Science, Parbhani.	26.01.2019	Participation, State Level
Poster Presentation Competition.	Mr. Shruti Lavekar (PG Student, Department of Microbiology).	7 th State Level Poster Competition (POCO) and Seminar on “Genetically Modified Organisms (GMO)” organized by Dnyanopasak Shikshan Mandal’s College of Arts, Commerce and Science, Parbhani.	26.01.2019	Participation, State Level

Poster Presentation Competition.	Mr. Jameel Hussain (PG Student, Department of Microbiology).	Brainstorm-2019, a Multidisciplinary State Level Poster Competition organized by Dept. of Computer and Management Science, Vivekanand Arts, Sardar Dalip Singh Commerce and Science College, Aurangabad.	17.01.2019	Participation, State Level
Poster Presentation Competition.	Ms. Shaikh Qurratulain (PG Student, Department of Microbiology).	Brainstorm-2019, a Multidisciplinary State Level Poster Competition organized by Dept. of Computer and Management Science, Vivekanand Arts, Sardar Dalip Singh Commerce and Science College, Aurangabad.	17.01.2019	Participation, State Level
Paper presentation on "Plaster of Paris idol immersion processor unit prototype for holy idols" at Adv. M. N. Deshmukh Arts, Science and Commerce College, Rajur.	Mr. Ajinkya Vijayrao Deshmukh (PG Student, Department of Botany)	National Conference on Recent Trends in Environmental Science organized by Adv. M. N. Deshmukh Arts, Science and Commerce College, Rajur.	18-01-2019 to 19-01-2019	Participation
Innovative Scientific Theme Presentation (Poster)	Mr. Mitkari Aarti Chandrashekhar	National Science Day Celebrations organized by Govt. Institute of Science, Aurangabad.	28-02-2019	Participation
Innovative Scientific Theme Presentation (Poster)	Mr. Nakhate Snehal Sunil	National Science Day Celebrations organized by Govt. Institute of Science, Aurangabad.	28-02-2019	Participation
Innovative Scientific Theme Presentation (Oral)	Mr. Deshmukh Ajinkya Vijayrao	National Science Day Celebrations organized by Govt. Institute of Science, Aurangabad.	28-02-2019	Participation
Innovative Scientific Theme Presentation (Oral)	Mr. Swadhyay Phtangare	National Science Day Celebrations at Govt. Institute of Science, Aurangabad.	28-02-2019	Participation

Participation in biotech Srujan 2019 Intercollegiate Poster, Model and Idea Presentation Competition.	Mr. Shaikh Sarwar (PG Student), Department of Biophysics.	MGM University, Institute of Biosciences and Technology, Aurangabad.	12.02.2019	College Level
Participation in biotech Srujan 2019 Intercollegiate Poster, Model and Idea Presentation Competition.	Ms. Manasi Joshi (PG-Student), Department of Biophysics.	MGM University, Institute of Biosciences and Technology, Aurangabad.	12.02.2019	College Level
Participation in Summer Course on Natural Product Chemistry: Isolation, Synthesis and Application.	Ms. Shruti Lavekar (PG Student), Department of Microbiology.	Agharkar Research Institute, Pune.	27.05.2019 to 31.05.2019	Local Level
Avishkar- Students				
Participation in Avishkar-18 Competition	Mr. Anirudh P. Bhagat (Research Student), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	03.01.2019 to 05.01.2019	University Level
Participation in Avishkar-18 Competition	Ms. Mehavish Fatima (Research Student), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	03.01.2019 to 05.01.2019	University Level
Participation in Avishkar-18 Competition	Mr. Ajinkya Deshmukh (PG Student), Department of Botany	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	03.01.2019 to 05.01.2019	University Level
Participation in Avishkar-18 Competition	Mr. Rahul Kakade (PG Student), Department of Geology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	03.01.2019 to 05.01.2019	University Level
Participation in Avishkar-18 Competition	Mr. Anirudh P. Bhagat (Ph.D.Student), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level

Participation in Avishkar-18 Competition	Ms. Mehavish Fatima (Research Student), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Rahul Kakade (PG Student), Department of Geology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Ajinkya Deshmukh (PG Student), Department of Botany	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Ms. Kalpana Kulkarni (Research Student), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Tushar Ghoderao (PG Student MScII), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Ms. Aarya Ghodke (PG Student MSc II), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Ms. Aparna Honkhambe (PG Student MScII), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Jameel Hussain (PG Student MScI), Department of Microbiology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level

Participation in Avishkar-18 Competition	Mr. Akash Karande (PG Student), Department of Geology	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Sunil Gawali (PG Student), Department of Botany	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Nilesh Harnawal (PG Student), Department of Botany	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level
Participation in Avishkar-18 Competition	Mr. Dnyaneshwar Ubale (PG Student), Department of Botany	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11.12.2018	District Level

3.2.3 No. of Incubation centers created, start-ups incubated on campus during the year

Incubation Centre	Nature	Sponsored by
Nil	Nil	None
Name of the Start-up	Nature of Start-up	Date of commencement
Nil	Nil	Nil

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

State	National	International
Nil	Nil	Nil

3.3.2 Ph. Ds awarded during the year (*applicable for PG College, Research Center*)

Name of the Department	No. of Ph. Ds Awarded
Microbiology: Mr. Anirudh P. Bhagat under the guidance of Dr. A. V. Pethkar dated 22-01-2019 01 student under the guidance of Dr. A. A. Peshwe 01 student under the guidance of Dr. S. M. Dharmadhikari	03
Botany: 1 student under the guidance of Dr. A. N. Salve	01
Total	04

3.3.3 Research Publications in the Journals notified on UGC website during the year			
Department	Name of faculty member	No. and Details of Publication	Average Impact Factor, if any
International			
Biotechnol.	Indarchand R. Gupta	Rai, M., Ingle, A.P., Pandit, R., Paralikar, P., Shende, S., Gupta, I., Biswas, J.K., da Silva, S.S. (2018) Copper and copper nanoparticles: role in management of insect-pests and pathogenic microbes, Nanotechnology Reviews, 7(4): 303-315.	Impact Factor: 2.759. Total Citations: 12.
	Dr. R. P. Bhagat	Sarika R. Deshmukh, Rahul P. Bhagat, Nilesh V. More, Optimization of Cellulase production from cellulose degrading microorganism isolated from cow dung, International Journal of Trends in Science and Technology, special issue ICRAFHN, pp: 19-25, 2018, ISSN2277-2812, E-ISSN2249-8109.	-
	Dr. R. P. Bhagat	Nilesh V. More, Shital M. Datkar, Rahul P. Bhagat, Vihang V. Patil, Plants as a source of a novel antityphoid therapeutic agents: A Review. International Journal of Trends in Science and Technology, special issue ICRAFHN pp: 19-25, 2018, ISSN2277-2812, E-ISSN2249-8109.	-
	Dr. M. S. Patil	Patil M.S. (2018), Production and stability studies of biosurfactant produced by an isolated indigenous bacterial strain. The Pharma Innovation Journal 2018; 7(12): 238-244. (Online ISSN: 2277-7695, Print ISSN: 2349-8242.)	RJIF 5.98
Botany	Dr. A. N. Salve	A N Salve, Effect of algal foliar fertilization on the growth and yield of <i>Solanum melongena</i> L. <i>Journal of Environmental Research And Development</i> , March 2019, 13 (03): 236-243, E-ISSN: 2319-5983.	-
	Dr. A. N. Salve	Nawale R. V. and Salve A. N., Effect of physico-chemical and biological parameters on quality of water of abandoned quarries from Newasa tahsil, International Journal of Research and Analytical Review, March 2019, 6(1): 81-89 Available at http://www.ijrar.org/IJRAR1AFP015.pdf , P-ISSN 2349-5138.	-

	Dr. A. N. Salve	A N Salve, Rahim Bagwan, S. P. Salve, Soil algae from Ahmednagar, Scholarly Research Journal for Interdisciplinary Studies (2019), 7 (39), 182-184, ISSN 2278-8808, Scopus.	1.638
	Dr. A. N. Salve	A. N. Salve, Bhor G. L., Sardesai M. M., Bhanudas Pardeshi, Study on seasonal variations in the water quality of Bhima river flowing through Khed Tehsil, <i>International Journal of Scientific Development and Research (IJSDR)</i> 4(5): 404-408 (May 2019), ISSN: 2455-2631.	5.47
Microbiology	Dr. Mrs. S. A. Peshwe	Rashika Siddiqui and S. A. Peshwe, Optimization of cultural and nutritional parameters for enhanced production of extracellular laccase from <i>Kalmusia</i> sp. RS07, International Journal of Advanced Research, 7(3): 773-781, ISSN/ISBN 2320-5407.	6.118
	Dr. Mrs. S. A. Peshwe	Kalpana Kulkarni and S. A. Peshwe, Screening, isolation and molecular identification of rice pathogen <i>Magnaporthe oryzae</i> , International Journal of Advanced Research, 7(3): 428-433, ISSN/ISBN 2319-9490.	6.118
	Dr. Mrs. S. A. Peshwe	Suchita Bharambe-Chaudhari and Swati Peshwe (2019), Isolation, Screening and nutritional optimization for the production of bacterial Phytase, J. of Emerging Technologies and Innovative Research, 6(4), ISSN No. 2349-5162. open access. UGC approved.	5.87
	Dr. Mrs. S. A. Peshwe	Kalpana Kulkarni and Swati Peshwe (2019), Comparative study of growth and sporulation of <i>Magnaporthe oryzae</i> using different media formulations, Int. J. of Scientific & technology Research, 8(11): 1740-1744, ISSN No. 2277-8616 UGC approved.	7.466 (SJIF)
	Dr. Mrs. S. A. Peshwe	Gene sequence deposited in NCBI, USA: 1. Rashika Siddiqui and S. A. Peshwe, <i>Kalmusia italica</i> RS07 (laccase production), acc. no. MK032797. 2. Suchita Bharambe and S. A. Peshwe, <i>Hydrobacter</i> sp. SP47 (phytase production), acc. no. MH345697. 3. Suchita Bharambe and S. A. Peshwe,	-

		<p><i>Streptomyces thermocarboxydus</i> ASP38 (phytase production), acc. no. MH345696.</p> <p>4. Suchita Bharambe and S. A. Peshwe, <i>Aspergillus terreus</i> fsp4 (phytase production), acc. no. MH357344.</p> <p>5. Kalpana Korde and S. A. Peshwe, <i>Alternaria macrospora</i> ek1 (rice field isolate), acc. no. MH553176.</p> <p>6. Kalpana Korde and S. A. Peshwe, <i>Magnaporthe oryzae</i> ck1 (rice blast isolate), acc. no. MH553171.</p>	
	Dr. A. V. Pethkar	Bagul, C. D., Bodake, N. L. and Pethkar, A. V. (2018), Standardization of ELISA assay for detection of <i>Salmonella enteric</i> , Journal of Environmental Research and Development, 13(2): 169-174, ISSN: 0973-6921	4.301
Biophysics	Dr. A. S. Vinchurkar	Vijay H. Ingole, Tomaz Vuherer, Aruna Vinchurkar, Anil V. Ghule, Vanja Kokol, Mechanical properties of nanohydroxyapatite materials prepared by the high-pressure compression technique for orthopedic applications, J. Mater. Engg. Perform., 2018 (accepted).	-
	Dr. A. S. Vinchurkar	Pravin Dhepe, Aruna Vinchurkar, Electrophysiological assessment of ulnar nerve in diabetic and non-diabetic patients: a nerve conduction study, Indian Journal of Applied Research (2018), 8(6).	-
	Dr. A. S. Vinchurkar	Dhepe Pravin, Vinchurkar Aruna, Effect of vitamin and supplementation on electrophysiological parameters of peroneal and tibial nerve in diabetic polyneuropathy patients, Indian Journal of Applied Research, [S. I.] 2018, 8(5).	-
	Dr. A. S. Vinchurkar	Gitanjali Kale, Aruna Vinchurkar, Synthesis and characterization of ZnO quantum dots by electrochemical method, International Journal of Management, Technology and Engineering (2018), 8(VI).	-
	Dr. A. S. Vinchurkar	Vinchurkar A. S., Dama L. B., Sonawane S. R., Mane P. P., Valsange A. B. and Gaikwad N. G., Evaluation of in-vitro antibacterial activity of <i>calotropis gigantea</i> leaf extract, Contemporary Research in India (2018), 135-138.	-

	Dr. A. S. Vinchurkar	Prafullata S. B. and Vinchurkar A. S., Study of auditory reaction time in severity of autism, Indian Journal of Applied Research, 2018, 8(5).	-
	Dr. A. S. Vinchurkar	A Dhobale, A Vinchurkar, L Dama, Effect of various media alternatives on in vitro propagation of banana (G-9) through tissue culture, Contemporary Research in India, ISSN 2231-2137.	-
Geology	Dr. S. M. Deshpande	S.M. Deshpande, R. K. Aher, G.D. Gaikwad, K. R. Aher, Electrical Resistivity Method for Groundwater Exploration: A Case Study of Ganori Village Area, Aurangabad District, Maharashtra, India, Bulletin of Pure and Applied Sciences Vol. 37F(Geology), No.2, pp 125-137 2018, ISSN 09704639.	5.195
	Dr. S. M. Deshpande	K. R. Aher, S.M. Deshpande, A.M. Varade, Groundwater Quality Assessment Studies in Yeola Block of Nashik District, Maharashtra, Journal of Geosciences Research Vol.4 No.1, pp.11-22 January, 2019.	-
	Dr. M. A. Sonar	M.A. Sonar, Tribhuvan P.R. and Golekar R.B., Hydrogeochemical characterization of groundwater from GP-8 (Godavari_Purna - 8) watershed, Maharashtra (India): A GIS Approach, Bulletin of Pure and Applied Sciences, Vol.37F (Geology), No.1, pp 18-37, 2018, ISSN 0970-4639.	0.6
	Dr. M. A. Sonar	M.A. Sonar, Tribhuvan P.R. and M.A.Malik, Aquifer Characteristic in hard Rock Terrain of GP-8 Watershed, Aurangabad District, Maharashtra Using Vertical Electrical Sounding Method, Journal of Geosciences Research Vol.3 No.2, pp.153-162 January, 2019.	0.6
	Dr. M. A. Sonar	Mohan A. Sonar and Ramesh M. Badve, Bryozoan fauna from the Burdigalian of Quilon beds of Padappakara, Kerala, India, Journal of Geological Society of India (May 2019), Vol. 93, 583-593.	-
Library	Dr. S. P. Bidarkar	S. P. Bidarkar, Green Libraries: an Overview, Knowledge Librarian.	5.222

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year							
Department and Faculty member				No. of publication			
Biotechnology- Dr. M. S. Patil				Patil M. S. (2018) Adsorption of colorants in distillery spent wash by a nonviable fungal biomass, 64 th annual convention of DSTA 412-429.			
Microbiology- Prof. U. K. Patil				Foundations in Microbiology, Nirali Publication, Pune, ISSN/ISBN- 976-81-85790-53-4, October 2018.			
3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index							
Title of the paper	Name of the author	Title of the journal	Year of publication	h5-index	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Copper and copper nanoparticles: role in management of insect-pests and pathogenic microbes	Rai, M., Ingle, A.P., Pandit, R., Paralikar, P., Shende, S., Gupta, I., Biswas,J.K., da Silva, S.S.	Nanotechnology Reviews, 7(4): 303-315.	4 July 2018	25	12	Institute of Science, Aurangabad	12, Impact Factor: 2.759.
Optimization of Cellulase production from cellulose degrading microorganism isolated from cow dung	Sarika R Deshmukh, Rahul P Bhagat, Nilesh V More	International Journal of Trends in Science and Technology, special issue ICRAFH N, pp: 19-25, ISSN2277-2812, E-ISSN2249-8109.	April 2019	00	00	Institute of Science, Aurangabad	00

Production and stability studies of biosurfactant produced by an isolated indigenous bacterial strain	Patil M.S.	The Pharma Innovation Journal	Nov. 2018	00	00	Government Institute of Science, Aurangabad	00
Plants as a source of a novel antityphoid therapeutic agents: A Review.	Nilesh V. More, Shital M. Datkar, Rahul P. Bhagat, Vihang V. Patil	International Journal of Trends in Science and Technology, special issue ICRAFH N pp: 19-25, ISSN2277-2812,E-ISSN2249-8109.	April 2019	00	00	Institute of Science, Aurangabad	00
Standardization of ELISA assay for detection of <i>Salmonella enterica</i>	Bagul, C. D., Bodake, N. L. and Pethkar, A. V.	Journal of Environmental Research and Development	Oct. 2018	09	00	Government Institute of Science, Aurangabad	00
Mechanical properties of nanohydroxyapatite materials prepared by the high-pressure compression technique for orthopedic applications,	Vijay H. Ingole, Tomaz Vuherer, Aruna Vinchurkar, Anil V. Ghule, Vanja Kokol,	J. Mater. Engg. Perform.,	2018	30	00	Government Institute of Science, Aurangabad	00
Electrophysiologic al assessment of ulnar nerve in diabetic and non-diabetic patients: a nerve conduction study	Pravin Dhepe, Aruna Vinchurkar	Indian Journal of Applied Research	June 2018	00	00	Government Institute of Science, Aurangabad	00

Effect of vitamin and supplementation on electrophysiological parameters of peroneal and tibial nerve in diabetic polyneuropathy patients,	Dhepe Pravin, Aruna Vinchurkar	Indian Journal of Applied Research	June 2018	00	00	Government Institute of Science, Aurangabad	00
Synthesis and characterization of ZnO quantum dots by electrochemical method	Gitanjali Kale, Aruna Vinchurkar	International Journal of Management, Technology and Engineering	2018	00	00	Government Institute of Science, Aurangabad	00
Evaluation of in-vitro antibacterial activity of calotropis gigantea leaf extract	Vinchurkar A.S., Dama L. B., Sonawane S. R., Mane P. P., Valsange A.. B. and Gaikwad N. G.	Contemporary Research in India	2018	00	00	Government Institute of Science, Aurangabad	00
Study of auditory reaction time in severity of autism	Prafullata S. B. and Vinchurkar A.S.	Indian Journal of Applied Research	2018	00	00	Government Institute of Science, Aurangabad	00
Hydrogeochemical characterization of groundwater from GP-8 (Godavari_Purna - 8) watershed, Maharashtra (India): A GIS Approach,	M.A. Sonar, Tribhuvan P.R. and Golekar R.B.,	Bulletin of Pure and Applied Sciences	June 2018	00	00	Government Institute of Science, Aurangabad	00
Effect of algal foliar fertilization on the growth and yield of <i>Solanum melongena</i> L.	A N Salve	Journal of Environmental Research And Development	March 2019	18	00	Government Institute of Science, Aurangabad	00

Soil algae from Ahmednagar city and surrounding areas	A N Salve, Rahim Bagwan, S. P. Salve	Scholarly Research Journal for Interdisciplinary Studies	December 2018	00	00	Government Institute of Science, Aurangabad	00
Effect of physico-chemical and biological parameters on quality of water of abandoned quarries from Newasa tahsil	Nawale R. V. and Salve A. N.	International Journal of Research and Analytical Review, March 2019, 6(1): 81-89, http://www.ijrar.org/IJRAR1A-FP015.pdf , P- ISSN 2349-5138.	March 2019	00	00	Government Institute of Science, Aurangabad	00
Study on seasonal variations in the water quality of Bhima river flowing through Khed Tehsil	A. N. Salve, Bhor G. L., Sardesai M. M., Bhanudas Pardeshi	<i>International Journal of Scientific Development and Research (IJSDR)</i>	May 2019	00	00	Government Institute of Science, Aurangabad	00
Growth studies of <i>Synechocystis salina</i> under different physical and chemical parameters,	A. N. Salve	<i>Think India Journal</i> , 22 (31), 723 - 728	2019	00	00	Government Institute of Science, Aurangabad	00
Screening, isolation and molecular identification of rice pathogen <i>Magnaportheoryzae</i> ,	Kalpna Kulkarni and S. A. Peshwe	International Journal of Advanced Research	March 2019	00	02	Government Institute of Science, Aurangabad	02

Isolation, Screening and nutritional optimization for the production of bacterial Phytase,	Suchita Bharambe-Chaudhari and Swati Peshwe	J. of Emerging Technologies and Innovative Research,	2019	00	00	Government Institute of Science, Aurangabad	00
Groundwater Quality Assessment Studies in YeolaBolck of Nashik District, Maharashtra	K. R. Aher. S.M. Deshpande, A.M. Varade,	Journal of Geosciences Research	January 2019	00	00	Government Institute of Science, Aurangabad	00
Production optimisation and characterisation of extracellular protease secreted by newly isolated <i>Bacillus subtilis</i> AU-2 strain obtained from <i>Tribolium castaneum</i> gut;	Aniketa R.Patel, Narendra U.Mokashe, Diptaraj S.Chaudhari, Ajaykumar G. Jadhav, Ulhas K.Patil	Biocatalysis and Agricultural Biotechnology (Elsevier)	May 2019	33	04	Government Institute of Science, Aurangabad	00
Smart nanopackaging for the enhancement of food shelf life,	Rai, M., Ingle, A.P., Gupta, I., Pandit, R., Paralikar, P., Gade, A., Chaud, M.V., dos Santos, C.A.	Environmental Chemistry Letters, DOI 10.1007/s10311-018-0794-8	September 2018	40	18	Department of Biotechnology Government Institute of Science, Aurangabad	00
Hydrogeochemical Investigation and Qualitative Assessment in Jogeshwari Industrial area of Aurangabad, Maharashtra, India.	G.D. Gaikwad, S.M. Deshpande, K. R. Aher, V. R. Dasarwar,	Bulletin of Pure and Applied Sciences, 38f (1).	May 2019	00	00	Government Institute of Science, Aurangabad	00
Suitability of Groundwater Quality for Drinking and Irrigation Purposes In the Dheku River Basin, Maharashtra,	S.M. Deshpande, R.K.Aher,	Bulletin of Pure and Applied Sciences, 38f (1).	May 2019	00	01	Government Institute of Science, Aurangabad	00

Bryozoan Fauna from the Burdigalian of Quilon Beds of Padappakara, Kerala, India	M.A. Sonar, Ramesh M. Badve	Journal of Geological Society of India, 93 , 583–593	May 2019	18	00	Government Institute of Science, Aurangabad	00
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3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
See above	See above	See above	See above	See above	See above	See above

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	Mr. H. P. Panakkal, 1 st International Conference on Materials and Environmental Science (ICMES-2018) organized by Shri Yashwantrao Patil Science College, Solankur and The New College, Kolhapur at Shivaji University Kolhapur on 7-12-2018 to 08-12-2018.	Mr. H. P. Panakkal, SWAYAM ARPIT online course for CAS promotion (Biotechnology) offered by Mohanlal Sukhadia University, Udaipur, Rajasthan under Govt. of India, Ministry of Human Resource Development, on 30.03.2019.	Mr. H. P. Panakkal, One day Seminar on Conflict among Teenagers and Women Harassment at Work Place, organized by GIFSA / Maharashtra State Commission for Women, at GIFSA, Aurangabad, 14.09.2018.	Dr. A. V. Pethkar, Three Days Faculty Development Workshop on “New NAAC Accreditation Methodology for HEIs”, 11-13 February, 2019, organized by IQAC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in association with Rashtriya Uchchatar Shiksha Abhiyan (RUSA) Project Directorate, Maharashtra State, for Principals/IQAC Coordinators.

	Dr. R. P. Bhagat, 1 st International Conference on Materials and Environmental Science (ICMES-2018) organized by Shri Yashwantrao Patil Science College, Solankur and The New College, Kolhapur at Shivaji University Kolhapur, on 7-12-2018 to 08-12-2018.	Dr. S. P. Bidarkar, National Conference on Revamping of Academic Libraries for Next Generation, on 30.11.2018 to 01.12.2018.	Mr. H. P. Panakkal, One day State Level Workshop on Intellectual Property Rights, organized by Govt. College of Arts and Science, Aurangabad at Govt. College of Arts and Science Aurangabad on 07.09.2018.	Dr. A. V. Pethkar, One Day Symposium on "Revised NAAC Framework for Colleges", 30.03.2019, organized by IQAC, Vivekanand Arts, Sardar Dalipsingh Commerce and Science College, Aurangabad.
		Dr. S. P. Bidarkar, One Day Awareness Programme of E-Resources, on 26.11.2018.	Mr. H. P. Panakkal, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra State Commission for Women, at GISA, Aurangabad.	Dr. S. P. Bidarkar, One Day Regional Level Workshop on Recent Trends in Stocktaking, on 08.12.2018.
			Dr. M. S. Patil, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra	

			State Commission for Women, at GISA, Aurangabad.	
			Dr. M. S. Patil, Conflict Among Teenagers and Women Harassment at Work Place, 14 th Sept 2018, organized by GIFSA / Maharashtra State Commission for Women, at GIFSA, Aurangabad.	
			Mrs. P. M. Sonawane, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra State Commission for Women, at GISA, Aurangabad.	
			Dr. A. V. Pethkar, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra State Commission for Women, at GISA, Aurangabad.	

Presented papers	Dr. A. G. Jadhav, Decolonization of Blue Herd dye by using bacterial isolates, ICEMS, Shivaji Univ. Kolhapur	Dr. M. S. Patil, Adsorption of colorants in distillery spent wash by a nonviable fungal biomass, Paper presentation in 64 th annual convention of DSTA on 28-29 July, 2018 at Mahatma Mandir, Gandhi Nagar, Gujrat.	Mrs. P. M. Sonawane, Conflict Among Teenagers and Women Harassment at Work Place, 14 th Sept 2018, organized by GIFSA / Maharashtra State Commission for Women, at GIFSA, Aurangabad, 14.09.2018.	
	Mrs. P. M. Sonawane, Exploring epilithic photosynthetic diatom Nitzschia as a potent source of antimicrobial agent, International Conference on Phytomedicine, 29 th to 31 st August 2018, Organized by Department of Botany and DRDO at Bharathiar University, Coimbatore	Dr. H. Wankhede, 88th Annual Session of the National Academy of Sciences, India held at Mahatma Gandhi Chitrakoot Gramodaya Vishwavidalaya, Chitrakoot, M.P. from 6-8 December, 2018	Dr. S. P. Bidarkar, Conflict Among Teenagers and Women Harassment at Work Place, 14 th Sept 2018, organized by GIFSA / Maharashtra State Commission for Women, at GIFSA, Aurangabad, 14.09.2018.	
	Mrs. P. M. Sonawane, Elemental Analysis of electronic scrap material of mobile phones using ICP-OES method, International Conference on Materials and Environmental Science, 7 th to 8 th December 2018,	Mehvish Fatima and Aniroodha V. Pethkar, Enzyme-laden biowaste of an industrial microorganism for the synthesis of gold nanoparticles, National Symposium cum Workshop on Bio-waste as Bio-resource (23 Feb. 2019), organized by	Dr. S. P. Bidarkar, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra State Commission for Women, at GISA,	

	Organized by Shri Yashwantrao Patil Science College, at Shivaji University, Kolhapur	Shankarlal Khandelwal Arts, Science and Commerce College, Akola (MS), sponsored by Sant Gadge Baba Amravati University, Amravati, in collaboration with Microbiologist Society, India, at Shankarlal Khandelwal Arts, Science and Commerce College, Akola (MS).	Aurangabad.	
	Dr. R. P. Bhagat, Screening of magnetosome producing bacteria from Lonar lake water, International conference on Materials and Environmental Science, (ICMES 2018) at Shivaji University, Kolhapur.	Mehvish Fatima and Aniroodha V. Pethkar, Investigating the role of nitrate reductase isolated from <i>B. subtilis</i> and actinomycetes for the synthesis of metal based nanoparticles (26-27 March 2019), National Symposium on Facets of Life Sciences, NSFLS-2019, organized by Department of Life Sciences, University of Mumbai, at University of Mumbai, Mumbai	Ms. V. J. Parsodkar, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra State Commission for Women, at GISA, Aurangabad.	
	Mr. H. P. Panakkal, Screening of magnetosome producing bacteria from Lonar lake	Dr. S. P. Bidarkar, National Seminar on Library as Knowledge and Skill Development Center, on 24.01.2019 to	Mr. V. W. Patil, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by	

	water, 1 st International Conference on Materials and Environmental Science- ICMES 2018, Kolhapur University, Kolhapur, 07.12.2018 to 08.12.2018.	25.01.2019	GISA/ Maharashtra State Commission for Women, at GISA, Aurangabad.	
	Dr. Mrs. S. A. Peshwe, Statistical optimization of media components for phytase production by <i>Aspergillus</i> sp., 59 th Annual Conference of AMI and International Symposium on Host-Pathogen Interactions, organized by School of Life Sciences, University of Hyderabad at Hyderabad.		Dr. R. P. Bhagat, Women Empowerment: Challenges and Strategies, 5 th October 2018, organized by GISA/ Maharashtra State Commission for Women, at GISA, Aurangabad.	
	Optimization of cultural and nutritional parameters for enhanced production of extracellular laccase from <i>Kalmusia</i> sp. RS07, 59 th Annual Conference of AMI and		Dr. R. P. Bhagat, One day State Level Workshop on Intellectual Property Rights, organized by Govt. College of Arts and Science, Aurangabad at Govt. College	

	International Symposium on Host-Pathogen Interactions, organized by School of Life Sciences, University of Hyderabad at Hyderabad.		of Arts and Science Aurangabad on 07.09.2018.	
	Identification, investigation and assessment of pathogenicity of field isolate of <i>M. oryzae</i> , 59 th Annual Conference of AMI and International Symposium on Host-Pathogen Interactions, organized by School of Life Sciences, University of Hyderabad at Hyderabad.		Dr. R. P. Bhagat, Conflict Among Teenagers and Women Harassment at Work Place, 14 th Sept 2018, organized by GIFSA / Maharashtra State Commission for Women, at GIFSA, Aurangabad, 14.09.2018.	
	Production and partial purification of novel laccase from <i>Kalmusia</i> sp., MSI Meet-International Symposium on Fungal Biology: Advances Application and Conservation, organized by MACS, Pune.			

	Computational model for understanding contribution of genes for causing blast disease, MSI Meet-International Symposium on Fungal Biology: Advances Application and Conservation, organized by MACS, Pune.			
	Isolation, screening and identification of potential laccase producing fungi, International Conference on Emerging Trends in Microbiological Science and Intellectual Property Rights, at Beed.			
	Dr. Mrs. J. J. Bhuktar and Mr. Shete U., Decolorization of sulfonated textile dye Direct Navy Blue by bacterial isolate B6, International conference ICEMS 7-8 Dec. 2018.			

	Dr. A. V. Pethkar, Nano-interventions for a safe environment in the new era, 5 th International Conference on Environment and Ecology, organized by International Foundation of Environment and Ecology, Kolkata in association with Confederation of Indian Universities, New Delhi, at Auditorium of Christ College, Pune, during 18-21 Feb. 2019.			
Resource Persons		Dr. A. N. Salve, Freshwater Algal Diversity, Adv. M. N. Deshmukh Arts, Science and Commerce College, Rajur.	Dr. A. G. Jadhav, Bioinformatics, Microbiolympi ad, RCP ASC NMU Shirpur.	Dr. A. N. Salve, Adv. M. N. Deshmukh Arts, Science and Commerce College, Rajur.
		Dr. A. V. Pethkar, "Environmental Technology in the nano-realm" Virtual presentation in the 1-day National Webinar on Nanobiotechnology, organized by Microbiologist Society, India and Sanjivani Arts, Commerce and	Dr. A. G. Jadhav, Invited for Seminar and Judge, Botanical Society, VMV Amravati.	Dr. S. A. Peshwe, "Cells and organs of the immune system", in the Lecture Series in Immunology organized by Govt. College of Arts and Science, Aurangabad at Aurangabad on 03-10-2018.

		Science College, Kopargaon, on 15-10-2018.		
		Dr. A. V. Pethkar, “Advantage Nano-the foundations”, Refresher Course in Environmental Education/Science , organized by Faculty Development Center, UGC-HRDC, Savitribai Phule Pune University Pune, at KTHM College, Nashik, on 15 Dec. 2018.	Dr. A. N. Salve, In the need of Algal bioprospecting, Innovative Prospects in Basic and Applied Plant Sciences, H R Mahavidyalaya , Rajgurunagar,	Dr. A. V. Pethkar, “Bioaugmentation and bioremediation of metal and pesticide contaminated waters and soils”, DBT sponsored Popular Lecture Series, organized by Sanjivani College of Pharmaceutical Education and Research, Kopargaon at Sanjivani College, Kopargaon, on 02-03-2019.
		Dr. A. V. Pethkar, “Environanobiotec hnology-applications and implications”, Refresher Course in Environmental Education/Science , organized by Faculty Development Center, UGC-HRDC, Savitribai Phule Pune University Pune, at KTHM College, Nashik on 15 Dec. 2018.		Dr. A. V. Pethkar, “Nanobiotechnology: foundations and applications”, organized by Govt. Arts and Science College, Aurangabad on 15-02-2019.
		Dr. K. M. Wanjarwadkar, <i>Geology and its applications in nation building</i> , Refresher course, UGC-HRDC Dr.BAMU, Aurangabad on 09.10.2018.		Dr. A. N. Salve, Guest lecture for M.Sc. I, Botany organized by Jijamata College of Science and Arts, Ahmednagar on 04-04-2019.

		Dr. K. M. Wanjarwadkar, <i>Drought Management-Geo-scientific approach</i> , refresher course, UGC-HRDC Dr. BAMU, Aurangabad, on 09.10.2018.		Dr. K. M. Wanjarwadkar, “ <i>Bhujal v Bhujal Punrbharan</i> ”, in NSS Camp at Georai Kuber-Taluka Karmad, on 08.02.2019.
				Mr. S.G. Kulkarni, Chief guest & Key Note Speaker, Biotech Srujan-2019 organized by MGM University, Institute of Biosciences and Technology, Aurangabad.

3.4 Extension Activities

3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers coordinated such activities	Number of students participated in such activities
16 July 2018- Tree plantation under the Govt. of Maharashtra's 10 crore tree plantation initiative- the work involved preparation of seed-balls and tree plantation in hilly areas.	NSS unit in collaboration with affiliating University.	01	100
21 June 2018, International Yoga Day-interactive lecture on “Yoga for stress management and concentration” by Dr. Charulata Rojekar, Yoga Therapy Centre, Aurangabad	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.	01	All students and staff
23 July 2018- Cleanliness campaign on the occasion of Pandharpur Wari (Pilgrimage). On the occasion of Ashadhi Ekadashi on 23 July 2018 the NSS volunteers joined the initiative undertaken by Center of Applied Research and People's Engagement (CARPE) in the Cleanliness Campaign during Pandharpur Wari/Yatra (a holy	NSS unit in collaboration with affiliating University and CARPE, Aurangabad.	01	50

pilgrimage). About 1500 Kg of food waste that was generated was cleaned by the volunteers. The volunteers also requested the pilgrims to not litter and created awareness on cleanliness and hygiene.			
10 August 2018- Blood donation camp and Dental check-up camp.	NSS unit	05	All students and staff
15 August 2018- Rally for awareness on health and environment	NSS unit	01	100
05 Sept. 2018- lecture by Dr. Baban Ingole, Scientist, NIO, Goa on “Research opportunities on the Antarctic island”.	NSS unit	01	All students and staff
24 Sept. 2018-02 Oct. 2018- Cleanliness campaign in the Institute campus on the occasion of Mahatma Gandhi’s Birthday, drawing competition and quiz competition on Gandhiji’s life and messages, plastic-free campus initiative, lecture by Dr. K. M. Wanjarwadkar (Associate Professor, Geology Department), rally for awareness on prevention of addictions.	NSS unit	05	All students and staff
05 Oct. 2018- one day workshop on “Women empowerment: challenges and strategies”	Government Institute of Science, Aurangabad	03	All students and staff
15 Oct. 2018- Vachan Prerna Din-story and poetry recital competition on the occasion of the Birthday of Dr. A.P. J. Kalam.	NSS unit and Central Library Department	03	All students and staff
12 Jan. 2019- Youth day celebration on the occasion of Birthday of Swami Vivekanand, essay competition on the theme “Swami Vivekanand’s expectations of the youth”.	NSS unit	01	All students and staff
25 Jan. 2019- Pledge on National Electors’ Day.	NSS unit	02	All students and staff
26 Jan. 2019- essay competition on “Awareness on Elections and Electoral Rights”; rally on awareness of electoral rights in residential areas adjoining Institute campus.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad	03	All students and staff
3 Feb. 2019- Cleanliness campaign,	NSS unit in	01	50

rally on awareness of electoral rights at adopted village Georai Kuber, house-to-house advice to residents on how to enroll for the electoral list, lecture by Shri. V. L. Pund, Election Assistant, Tehsil office, Aurangabad on Election awareness- responsibility of Election Commission.	collaboration with Govt. Institute of Forensic Science, Aurangabad and the affiliating University.		
4 Feb. 2019- health and hygiene awareness for children residing in Georai Kuber, desilting of lake and storing the silt in large pits for using later as a fertilizer, lecture by Dr. Abhay Salve on “Importance of tree plantation to increase groundwater level”.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.	02	50
5 Feb. 2019- Medical and dental check-up camp for residents of Georai Kuber, awareness amongst school children on use of cloth bags instead of plastic, interactive lecture by Shri. S. G. Sangle, Govt. Institute of Forensic Science, Aurangabad on “Indian Youth and ideology”.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad, affiliating University and Govt. Hospital, Chikalthana and Govt. Dental College, Aurangabad.	01	50
6 Feb. 2019- Cleanliness campaign at Georai Kuber, cleaning and painting walls of local healthcare center with messages and pictures on preventing female foeticide, educating girls, prevention of addictions, waste management, lecture by Dr. S. G. Narwade, Govt. Institute of Forensic Science, Aurangabad, on “Cleanliness and life”.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.	01	50
7 Feb. 2019- Biodiversity field study of forest region near Georai Kuber, organized by Dr. M. N. Bokhad, Govt. Institute of Science, Aurangabad.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad	02	50
8 Feb. 2019- Survey on livelihood and lifestyle of the residents of Georai Kuber and advising them about	NSS unit in collaboration with Govt. Institute of	02	50

various Govt. schemes and policies, lecture by Dr. K. M. Wanjarwadkar, Govt. Institute of Science, Aurangabad, on “Groundwater Recharge”.		Forensic Science, Aurangabad		
3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year				
Name of the Activity		Award/recognition	Awarding bodies	No. of Students benefited
Nil		Nil	Nil	Nil
3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
On the occasion of Ashadhi Ekadashi on 23 July 2018 the NSS volunteers joined the initiative undertaken by Center of Applied Research and People’s Engagement (CARPE) in the Cleanliness Campaign during Pandharpur Wari/Yatra (a holy pilgrimage). About 1500 Kg of food waste that was generated was cleaned by the volunteers. The volunteers also requested the pilgrims to not litter	NSS unit in collaboration with Center of Applied Research and People’s Engagement (CARPE), Aurangabad.	Cleanliness campaign	01	50

and created awareness on cleanliness and hygiene.				
Medical and dental check-up camp for residents of adopted village, Georai Kuber.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad, affiliating University, Govt. Hospital Chikalthana, Govt. Dental College, Aurangabad.	Health and hygiene, cleanliness, social awareness.	03	50
Women's Day Programme, 8Mar2019	Govt. Institute of Science, Aurangabad	Elocution competition on "Stree chi yashogatha (Success story of Women)"	04	25
Women Empowerment	Govt. Institute of Science, Aurangabad in collaboration with Maharashtra State Commission for Women	One day workshop on "Women empowerment: challenges and strategies" 05 Oct. 2018	05	All students

3.5 Collaborations

3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the Year

Nature of Activity	Participant	Source of financial support	Duration
Nil	Nil	Nil	Nil

3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of

research facilities etc. during the year				
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Training in “Palsunde Minor Irrigation Tank and Nira-Bhima Link Tunnel”.	Summer Training	Central Designs Organizations, Nasik, (Water Resources Department, Maharashtra).	01.06.2018-11.07.2018	Mr. Yogesh Parshuram Date (PG Student) and Dr. K. M. Wanjarwadkar
Training in “Groundwater exploration and prospecting in hard rock terrain, using resolution electrical resistivity tomography technique”.	Winter Training	CSIR- National Geophysical Research Institute, Hyderabad, Telangana.	06.12.2018-22.01.2019	Mr. Musaddiq Mohd. Moin Naik (PG Student) and Dr. K. M. Wanjarwadkar
Training in “CBM Exploration and Exploration Techniques”.	Winter Training	CSIR- Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand	03.12.2018-04.01.2019	Mr. Yogesh Parshuram Date (PG Student) and Dr. K. M. Wanjarwadkar
Training in “CBM Exploration and Exploration Techniques”.	Winter Training	CSIR- Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand	03.12.2018-04.01.2019	Mr. Ashutosh Jayprakash Pande (PG Student) and Dr. K. M. Wanjarwadkar
Research	Sharing of nanoparticle characterization facility	Linkage with Dr. A. K. Gade & Prof. M. K. Rai, Department of Biotechnology, SGB Amravati University, Amravati.	2012 till date	Mr. I. R. Gupta
Professional consultancy	Improvement of vegetables.	M/s Beej Sheetal Research Pvt. Ltd.	30.06.2018 to 30.04.2019	Shri. S. G. Kulkarni
Professional consultancy	Pollen exposure.	Mahyco, Jalna	21.08.2018 to 31.03.2019	Shri. S. G. Kulkarni
Academic	Subject expert in interviews for appointment of lecturers.	Department of Microbiology, Deogiri College, Aurangabad	06-07-2018	Dr. A. V. Pethkar
Examination	Examiner for	Department of	07-12-2018 to	Dr. A. V. Pethkar

	M.Sc. Microbiology.	Microbiology, Shiv Chhatrapati College, Aurangabad.	08-12-2018	
Examination	Examiner for M.Sc. Biotechnology	Institute of Biosciences and Technology, Aurangabad	04.05.2019	Mrs. P. M. Sonawane
Examination	Examiner for M.Sc. Biotech.	Institute of Biosciences and Technology, Aurangabad	27.11.2018 to 28.11.2018	Mrs. P. M. Sonawane
Examination	Examiner for B.Sc. Forensic Science.	Govt. Institute of Forensic Science, Aurangabad	11.03.2019 to 12.03.2019	Dr. R. P. Bhagat
Extension activities	Cleanliness Campaign during Pandharpur Pilgrimage.	Center of Applied Research and People's Engagement (CARPE).	23.07.2018	Dr. A. V. Pethkar (NSS Programme Officer).
Training in "Yog"	International Yoga Day-interactive lecture on "Yoga for stress management and concentration".	Dr. Charulata Rojekar, Yoga Therapy Centre, Aurangabad and Govt. Institute of Forensic Science, Aurangabad.	21.06.2018	Dr. A. V. Pethkar (NSS Programme Officer).
Public Awareness	Lecture and awareness on electoral rights at adopted village Georai Kuber.	Shri. V. L. Pund, Election Assistant, Tehsil office, Aurangabad and Govt. Institute of Forensic Science, Aurangabad.	03.02.2019	Dr. M. N. Bokhad (NSS Programme Officer).
Public Awareness	Health and hygiene awareness for school children of Georai Kuber.	Govt. Institute of Forensic Science, Aurangabad	04.02.2019	Dr. M. N. Bokhad (NSS Programme Officer).
Health and Hygiene	Medical and dental check-up camp	Govt. Hospital, Chikalthana, Govt. Dental College, Aurangabad and Govt. Institute of Forensic Science, Aurangabad.	05.02.2019	Dr. M. N. Bokhad (NSS Programme Officer).

Extension activities	Cleanliness Campaign in adopted village, Georai Kuber.	Govt. Institute of Forensic Science, Aurangabad	06.02.2019	Dr. M. N. Bokhad (NSS Programme Officer).
3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year				
Organisation		Date of MoU signed	Purpose and Activities	Number of students/ teachers participated under MoUs
-		-	-	-
CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES				
4.1 Physical Facilities				
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year				
Budget allocated for infrastructure Augmentation (Rs.)			Budget utilized for infrastructure development (Rs.)	
2,23,000.00			2,23,000.00	
4.1.2 Details of augmentation in infrastructure facilities during the year				
Facilities		Existing		Newly added
Campus area		25 acre (12,852 sq. m.)		Nil
Central Library		01		Nil
Class rooms		10		Nil
PG Laboratories		10		Nil
Research Laboratories		05		Nil
Special Instrument Laboratories		05		Nil
Seminar Halls		03 (Geology, Biotechnology and Biophysics)		Nil
Classrooms with LCD facilities		08 (Botany 2, Geology1, Biotechnology2, Microbiology2 & Biophysics1)		Nil
Classrooms with Wi-Fi/ LAN		02 (Biotech)		Nil
Seminar halls with ICT facilities		03		Nil
Video Centre		00		Nil
Playground		01		Nil
Auditorium		01		Nil
Health Center		01		Nil
No. of important equipment purchased (≥ 1-0 lakh) during the current year.		15		02
Value of the equipment purchased during the year (Rs.)		54,11,672		4,33,700
Others		Nil		Nil

4.2 Library as a Learning Resource								
4.2.1 Library is automated { Integrated Library Management System -ILMS }								
Name of the ILMS software		Nature of automation (fully or partially)		Version	Year of automation			
SOUL		Partially		2.0	2012			
4.2.2 Library Services:								
	Existing		Newly added		Total			
	No.	Value	No.	Value	No.	Value		
Text Books	2566	1851360.00	50	24274.00	2616	1875634.00		
Reference Books	6890	2279132.00	452	300117.00	7342	2879366.00		
e-Books	-	-	84086437	-	84086437	-		
Journals	20	123225.00	25	148703.00	25	148703.00		
e-Journals	-	-	-	-	-	-		
Digital Database	-	-	-	-	-	-		
CD & Video	85	-	-	-	85	-		
Library automation	-	-	-	-	-	-		
Weeding (Hard & Soft)	-	-	-	-	-	-		
Others (specify)	-	-	-	-	-	-		
4.3 IT Infrastructure								
4.3.1 Technology Upgradation (overall)								
	Total Computer s	Compute r Labs	Inte rnet	Browsing Centres	Com puter Centr es	Office	Department s	Available band width (MGBPS)
Existing	84	-	72	19	-	08	48	10 MBPS
Added	02	-	-	-	-	-	-	-
Total	86	-	72	19	-	08	48	10 MBPS

4.3.2 Bandwidth available of internet connection in the Institution			
NMEICT 10 MBPS			
4.3.3 Facility for e-content			
Name of the e-content development facility		Provide the link of the videos and media centre and recording facility	
Nil		Nil	
4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc			
Name of the Teacher	Name of the module	Platform on which module is developed	Date of launching e - content
Nil	Nil	Nil	Nil
4.4 Maintenance of Campus Infrastructure			
4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year			
Assigned budget on academic facilities (Rs.)	Expenditure incurred on maintenance of academic facilities (Rs.)	Assigned budget on physical facilities (Rs.)	Expenditure incurred on maintenance of physical facilities (Rs.)
	3,73,000	3,73,000	11,23,000
Total	3,73,000	3,73,000	11,23,000
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (<i>maximum 500 words</i>) (information to be available in institutional Website, provide link)			
http://www.inosca.org/iqac/procedures- policies-2018-19.pdf			

CRITERION V - STUDENT SUPPORT AND PROGRESSION			
5.1 Student Support			
5.1.1 Scholarships and Financial Support			
	Name /Title of the scheme	Number of Students	Amount in Rupees
Financial support from institution	Nil	00	00
Financial Support from State Govt.	Punjabrao Deshmukh-hostel residence	04	8,000.00
	Eklavya Scholarship	03	15,000.00
	Chattrapati Rajarshi Shahu	26	58,524.00
	Freeship (VJNT)	01	2,214.00
	Freeship (OBC)	05	38,420.00
	Minority Scholarships	02	2,000.00
Financial support from other sources			
Affiliating University	Earn and Learn Scheme	05	5000.00
a) National	GOI- PMS Freeship	17	2,44,735.00
	GOI- PMS- ST	02	29,208.00
	GOI- PMS- VJNT	10	97,560.00
	GOI- PMS- OBC	20	2,03,740.00.00
	GOI- SBC	02	16,958.00
b) International	Nil	00	00
Total		92	7,16,359.00
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
“Yoga for stress management and concentration” on International Yoga Day	21 June 2018	All students and staff	Yog Therapy Center, Aurangabad
One-day workshop on “Women empowerment: challenges and strategies”	05 Oct. 2018	All students and staff	Government Institute of Science, Aurangabad

5.1.3 Students benefited by guidance for competitive examinations and career counseling offered by the institution during the year					
Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018	Seminar on “Opportunities in clinical Embryology” by Mr. Hussain Sheikh, Chief Embryologist Apex IVF Center Raigad MP	-	All students of Biotechnology, Biophysics and Microbiology Departments.	-	-
2018	Seminar on “Overview of Pharma Industries and required skillsets” by Mr. Laxmikant Rathi, HR Wockhardt Pvt.Ltd, Aurangabad	-	All students of Biotechnology, Biophysics, Botany and Microbiology Departments.	-	5
2018	Seminar on “Interview skills and Soft skills for pharma sectors” by Mr. Nitin Nage, Research Scientist R&D, Sun Pharma Ahmedabad	-	All students of Biotechnology, Biophysics, Botany and Microbiology Departments.	-	5
5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year					
Total grievances received		No. of grievances redressed		Average number of days for grievance redressal	
Nil		Nil		NA	
5.2 Student Progression					
5.2.1 Details of campus placement during the year					
On campus			Off Campus		
Name of Organiz ations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
3	17	09	15	40	26

Details of Student Placements					
S. No	Department	Name of Student	M.Sc. Passing Year	Institution where placed	Post/ Designation
1	Biotechnology	Mr. Doifode Ram Vijayhari	2019	MJ Biotech Pvt Ltd, Pune	Research Trainee
2	Biotechnology	Mr. Gadhave Nivrutti Bhimrao	2019		Research Trainee
3	Biotechnology	Mr. Kotule Ganesh Pradip	2019	Serum India Pvt Ltd, Pune	Research Trainee
4	Biotechnology	Mr. Pankar Ajay Laxman	2019	Bharat Serum Mumbai	QC Analyst
5	Biotechnology	Ms. Chavan Chaitali Vijay	2019	Tissue culture lab Latur	Trainee
6	Biotechnology	Ms. Shradha Dandge	2019	GeBBS Healthcare Solutions Pvt Ltd. Aurangabad	Medical Coder Trainee
7	Biotechnology	Ms. Jyoti Ghatekar	2019	GeBBS Healthcare Solutions Pvt Ltd. Aurangabad	Medical Coder Trainee
8	Biotechnology	Ms. Vibha Chavan	2019	GeBBS Healthcare Solutions Pvt Ltd. Aurangabad	Medical Coder Trainee
9	Biotechnology	Ms. Gayatri Gangawane	2019	GeBBS Healthcare Solutions Pvt Ltd. Aurangabad	Medical Coder Trainee
10	Biotechnology	Ms. Priya Jatte	2019		Medical Coder Trainee
11	Biotechnology	Ms. Shwetali Tembhurkar	2019		Medical Coder Trainee
12	Biotechnology	Ms. Pooja Pawar	2019		Medical Coder Trainee
13	Biotechnology	Ms. Rupali	2019	Shreya life	Research

		Suradkar		Sciences	Trainee
14	Biotechnology	Mr. Ankush Chavan	2018	Lupinpvt Ltd Pune	Production trainee
15	Biotechnology	Mr. Samadhan Patekar	2018	WockhadtsPvt Ltd Abad	Production trainee
16	Microbiology	Ms. Priyanka Ingole	2019	Shreya life Sciences Aurangabad	Microbiologist
17	Microbiology	Mr. Quadri Zaid Ahmad	2019		QCAlyst
18	Microbiology	Mr. Balasaheb Taware	2019		QCAlyst
19	Microbiology	Mr. Tushar Ghoderao	2019	Wockhadts Pvt Ltd Abad	Production Trainee
20	Microbiology	Mr. Abhishek Kulkarni	2019	Bharat Serum Pvt Ltd Mumbai	QC Analyst
21	Botany	Ms. Priyanka Shinde	2018	BejoSheetal, Aurangabad	Trainee
22	Botany	Mr. Shyamrao Wankhade	2018	Khaitan Fertilizer Indore	Field Assistant
23	Botany	Ms. Vaishanvi Pawar	2018	JES colleges, Jalna	Teacher
24	Botany	Ms. Aswini Shelar	2018	CBSC school, Abad	Teacher
25	Geology	Mr. Ajiz Bagahadum	2018	Madras HGS Pvt.Ltd	Trainee Mudlogger
26	Geology	Mr. LaxmanGadadhe	2018	Tri-idols Geotechnics	Site Geologist
27	Geology	Mr. Abhishek Kasar	2018	SKW soil & Survey Co.	Geologist
28	Geology	Mr. Rishikesh Patil	2018		Geologist
29	Geology	Mr. Mirzawasif Baig	2018	Geology International Barwa Rajasthan	Mudlogger
30	Geology	Mr. Sayed Shabuddin	2018	Sinopec Kuwait	Mudlogger
31	Geology	Mr. Naik Musaddiq	2019	DBM Geotechnics Mumbai	Geologist
32	Geology	Mr. Yogesh Date	2019		Geologist
33	Biophysics	Mr. Mandar Deshpande	2018	Serum Pvt LTd Pune	Production officer

34	Biophysics	Mr. Pratik Nagpure	2018	Agriculture Officer BOI	Agricultur e Officer
35	Biophysics	Ms. Snehal Jadhav	2018	Agricultural Assistant State Govt.	Agricultur al Assistant
5.2.2 Student progression to higher education in percentage during the year					
Year	Name of Student	Programme graduated from	Department graduated from	Name of institution joined	Name of Programm e admitted to
2018-19	Nil	Nil	Nil	Nil	Nil
5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)					
Items		No. of Students selected/ qualifying		Registration number/roll number for the exam	
NET (CSIR)- JRF, June 2018		Vikas Ghadamode		00	
NET (CSIR)- JRF, June 2018		Mr. Somesh M. Gorde		356749	
NET (CSIR)- JRF, Dec 2018		Mr. Vinod Shinde		00	
		Mr. Dipak More		354394	
NET (CSIR)-LS June 2018		Mr. Bhaurao Chausaste		00	
		Mr. Vishwajit Paulbuddhe		206340	
NET (CSIR)-LS Dec 2018		Mr. Mayur Jondhale		00	
		Mr. Akshay Kharve		205997	
		Mr. Vishwajit Paulbuddhe		205784	
DBT-JRF BET-2018, July 30, 2018, Category II		Mr. Somesh M. Gorde		Letter no. DBT/JRF/BET-18/II/2018/AL/19	
GATE- March 2019		Ms. Gayatri Gangawane		00	
		Ms. Snehal Deshpande		XL19S22092050	
		Ms. Snehal Kulkarni		XL19S22041116	
		Mr. Susheel B. Mandore		00	
State Government Services		00		00	
Any Other		00		00	
5.2.4 Sports and cultural activities / competitions organized at the institution level during the year					
Activity		Level		Participants	
Annual Sports		Institution Level		150	
Annual Gathering Cultural Events		Institution Level		183	
National Science Day was celebrated by organizing 2 competitions on Innovative Scientific Theme Presentation- a Poster Competition and a 2-minute Oral Presentation competition on 28.02.2019.		Institution Level		Poster competition- 13 participants Oral Presentation- 17 participants	

5.3 Student Participation and Activities						
5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)						
Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2018-19	1 st Prize (52 Kg)- Gold Medal, Judo-(W)	University Level	Intercollegiate Sports organized by University Board of Physical Education and Sports, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad held at RMIC, Jalna.	-	Cert. No. 441	Ms. Rutuja Patil
10.02.2019	Brown Belt-1 st	District Level	Aurangabad District Judo Association, Aurangabad.	-	Sr. No. 3712019	Ms. Rutuja Patil
10.03.2019	Kung-Fu Karate Black Belt Certificate Diploma, authorized as instructor to teach Karate at Club/District Level.	District Level	Self Defense Martial Arts Association, Aurangabad, at Bajaj Nagar Vyayam and Krida Prasarak Mandal, Aurangabad.	-	MBL18-19/1013	Ms. Rutuja Patil
01-02-2019	3 rd Prize	Tehsil Office, Aurangabad	-	Elocution Competition under State Election Commission, Lokshahi Pandharwada Programme	BOT18-19-1002	Mr. Ajinkya Vijayrao Deshmukh

30-10-2018	Participation	State Level	-	Essay Competition on National Integration/Uniform Code organized by Hamid Dalwai Islamic Research Institute, Pune. Essay	BOT18-19-1002	Mr. Ajinkya Vijayrao Deshmukh
30-10-2018	Participation	State Level	-		BOT18-19-1010	Ms. Snehal Sunil Nakhate
30-10-2018	Participation	State Level	-		BOT18-19-1014	Ms. Jagruti Pandurang Sharma
30-10-2018	Participation	State Level	-		BOT18-19-1007	Ms. Aarti Chandrashekar Mitkari
30-10-2018	Participation	State Level	-		BOT18-19-1018	Ms. Ashwini Dattatray Undre
30-10-2018	Participation	State Level	-		BOT18-19-1008	Ms. Pratiksha Kakasaheb Molavane
08-03-2019	2 nd Prize	State Level	-	Essay Competition under State Level Workshop on Women Empowerment, organized by Shri Shivaji Science and Arts College, Chikhali, Dist. Buldhana	BOT18-19-1010	Ms. Snehal Sunil Nakhate
14-09-2018	Participation	State Level	-	One day seminar on Conflict among teenagers and women harassment at work place, organized by Govt. Institute of Forensic Science, Aurangabad in collaboration with Maharashtra State Commission for Women.	BOT18-19-1014	Ms. Sharma Jagruti Pandurang

<p>5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)</p>
<p>Members of the Student Council are elected through Institute Level Elections as per directives given by the affiliating University. In the current year, there were no directives issued by the University to conduct the elections. Hence, the Student Council was not constituted.</p>
<p>5.3 Alumni Engagement</p>
<p>5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):</p>
<p>The institute has alumni association named as “ALUMNI OF INSTITUTE OF SCIENCE” It is registered under मुंबई सार्वजनिक विश्वस्तव्यवस्था अधिनियम १९५० (सन १९५० चा मुंबई अधिनियम, २९) with Deputy Charity Commissioner, Aurangabad. The registration number is F11 217 (A). This association has drafted memorandum and rules & regulations adopted unanimously at a special general meeting in Institute’s conference hall. The registered office of association will be situated at Government Institute of Science, Aurangabad. The executive body of association consists of 11 members including Director of the Institute is Ex-officio Chairman and other members include Vice-chairman, Secretary, Joint Secretary, Treasurer and 6 Executive Members. The members of this association are Ex-students of this institute only. The association is formed with following broad aims.</p> <ul style="list-style-type: none"> • To inculcate research consciousness and professional exposure among existing students through Lectures and demonstrations by alumni working in various fields • To foster collaboration with industries, research institutions via alumni mediation for arranging internship, study visits, short term trainings, undertaking summer projects, campus interviews, interaction meets, group discussion etc. • To undertake and strengthen the research projects of mutual benefits with various industries and research organizations utilizing sophisticated instrumentation and expertise on both the sides and simultaneously involving existing students in these projects mentoring and exposing them in multidisciplinary aspects. • To encourage and undertake socio-educational activities like exhibition, science at doorsteps seminars, workshops, conferences which are consequent upon our interdisciplinary approach. • To felicitate the bright students contributing innovations in different fields. • To help financially hard-pressed students • To perform all other acts as may be incidental or conducive to the attainment of any one or all of the abovementioned objectives. <p>The membership drive and appeal for alumni contribution are being executed presently.</p> <p>The “ALUMNI OF INSTITUTE OF SCIENCE” in conjunction with Government Institute of Science, Aurangabad has undertaken student centric activities for their overall development under “STEP-IN” (STudents EmPowerment INitiative), an initiative venture to establish Industry-Institute Advisory Forum and implement action programmes for Human Resource Development in respective fields. Our vision statement of STEP-IN is, <i>“to be most admired Industry-Institute advisory forum engaging youngsters in education and equip tomorrow’s workforce with relevant skills by linking with industry requirements”</i> to march towards mission as follows - <i>“We will inculcate employability/entrepreneur skills in the students by high quality academic experience, developing performance competencies through hands on training in modular employable skills and helping them to meet job-fit skill requirement of the industry”</i></p>

<p style="text-align: center;">Strategy for execution of activities under STEP-IN</p> <ul style="list-style-type: none"> ➤ Establish strong between Industry and Institute co-ordination ➤ Develop and Translate Campus to Corporate curricula ➤ Undertake skill development initiatives by blending modular employable skill programs <p>Several lecture series, interaction meetings and campus interviews were organized under this banner.</p>
5.3.2 No. of registered enrolled Alumni: Nil
5.3.3 Alumni contribution during the year (in Rupees) : Nil
<p>5.3.4 Meetings/activities organized by Alumni Association :</p> <ul style="list-style-type: none"> • Each Department has a database of alumni and organizes meetings with the alumni. • A unique activity is initiated as Alumni lecture series (GISA initiated alumni lecture series) wherein alumni of the institute who have made marks in various walks of life are invited to deliver lectures and have a dialogue with the students about the contribution of the Institute in building their career. This helps to motivate the students. • The Alumni are invited to share their expertise and deliver some lectures from academic curriculum. • Alumni support to the Institution and each individual department include announcements and communications about new openings and opportunities available at different institution and industries they are attached with, thus acting as a bridge for ensuring the placement of fresh postgraduates. • Alumni support Training and Placement Cell in organizing campus interviews, recruitment and offering summer training etc. • Biotechnology department has initiated the activity named ‘Walk The Talk’, where alumni members deliver lectures and shares their expertise and experience with the students.
CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT
6.1 Institutional Vision and Leadership
6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)
<p>The Principal delegates the powers to the Heads of Departments to impart the curriculum and syllabi. In turn the Heads of various departments allocate the responsibilities and work amongst their departmental colleagues. College has installed and empowered IQAC for achieving excellence in the institutional processes. The office administration is geared through Registrar to help general administration ranging from admission, scholarships, purchases, estate management, infrastructure maintenance etc. Various committees are formed for organizing co-curricular, extracurricular and sports activities. Opinions and suggestions that are expressed in meetings are given due consideration and promptly acted upon by the Director and other faculty. The Director encourages and supports the participation of students and teachers in seminars, conferences, workshops, Ph.D & M.Phil. programmes, Refresher Course and Orientation programmes, publication of research papers, publication of books and many such steps to ensure creation and enrichment of knowledge. The Local Governing Body Meetings, staff meetings, directives issued by the government, visit of the government authorities, activities of the student forum for co-curricular and extracurricular activities are all purposeful in fine tuning with the institutional processes and activities to ensure compliance with our national policies of Higher Education and also the vision, mission and goals of our institution.</p>
<p>6.1.2 Does the institution have a Management Information System (MIS)?</p> <p>Yes/No/Partial: Yes</p>

6.2 Strategy Development and Deployment
6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):
<p><input type="checkbox"/> Curriculum Development: The institute implements the curriculum provided by our affiliating University. Teachers are deputed to participate in orientation courses, refresher courses, seminars, conferences, workshops, symposia etc., to enable them to keep themselves abreast with latest developments in the respective fields of their specializations. Curriculum designing and restructuring of courses is the prerogative of the affiliating University. However, the faculties of our College make significant contributions in the curriculum design and development. They act as BOS members and attend workshops on designing of syllabi.</p>
<p><input type="checkbox"/> Teaching and Learning: Systematic academic planning, use of the modern teaching-learning aids and extensive ICT adoption are incorporated for effective delivery of the curriculum. Remedial mentoring for slow learners and special tasks for advanced learners are encouraged. IQAC has made the teaching and learning process student centric and transformed the student community into lifelong learners by way of adopting the mechanisms: teaching with case studies, focus on teaching with digital aids, learning with guided assignments, seminars, student seminars and to make teaching more interesting and activity based, teachers are encouraged to organize study tours, field visits and industrial visits.</p>
<p><input type="checkbox"/> Examination and Evaluation: Institute follows examination and evaluation reforms mandated by the affiliating University. Institute appoints a faculty member as the In-charge of the Exam. Committee to conduct institute level centralized internal examinations. The campus is equipped with CCTV to ensure transparency. The Committee conducts mid-term and End-term internal examinations each semester by adhering to the academic calendar. Teachers set question papers and hand over to the committee to ensure transparency. The internal test marks and test papers are shown to students and elaborately discussed in order to suggest refinements for further improvements.</p>
<p><input type="checkbox"/> Research and Development: Research culture is nurtured in the institute. The Institute encourages faculty members to pursue PhD, submit proposals for Minor and Major Research projects to get financial assistance sanctioned publish papers in UGC listed journals, present their research findings among peers through conferences, symposia, and seminars. The institute extends consultancy services to professional and industrial organizations in the field of expertise. Free unlimited internet access for both staff and students is available. Students are also encouraged to involve in research activities and participate in conferences, seminars and research competitions such as AVISHKAR, Poster competitions and oral presentation. Guest lectures on research methodology, orientation are given to students and are encouraged to participate actively.</p>
<p><input type="checkbox"/> Library, ICT and Physical Infrastructure / Instrumentation: The institute has central Library housed in an independent building with two floors having spacious reading hall, separate halls for books and periodicals. The library has a collection of over 7000 text books, over 2000 reference books and back volumes of highly acclaimed journals such as Science, Nature, Scientific American, Journal of Bacteriology, Journal of Biological chemistry, Various Annual Reviews etc. The library provides access to e-books and e-journals through Digital consortium. The Institution is located in serene picturesque and a pollution free campus in an environment conducive to learning. The institute has installed CCTV as safety and discipline measure in the campus, installation of water purifiers for providing pure and clean drinking water, well equipped auditorium, free Internet access in the departments to students and teachers. The institute strives to procure funds for development of new</p>

infrastructure and renovation of existing infrastructure from various funding agencies such as RUSA, DPDC and state government. The institute has developed analytical instrumentation facility with funding from central government DST-FIST scheme. In addition the institute gets funding for purchase of instruments and accessories. The institute offers Gamma Irradiation, Ground Water survey, Forensic investigation services to academicians, industrial professionals and farmers. The institute houses museum and herbariums in departments of Geology and Botany respectively.

☐ Human Resource Management:

The faculty members are appointed by the government through MPSC. In order to cater to additional workload every year the qualified candidates are entrusted with teaching activity on Clock hour basis by following UGC and state government norms. Expert Professionals are invited to deliver guest lectures to keep students updated with latest developments. Faculty members are encouraged to take part in FDPs, STPs, orientation and refresher courses to widen their knowledge horizons. The institute regularly encourages faculty members for timely submission of proposals for CAS placements and promotions. The teaching and nonteaching staff of institute is entitled to avail annual increments, leaves and other permissible benefits.

☐ Industry Interaction / Collaboration:

The institute offers Gamma Irradiation, Ground Water survey, Forensic investigation services to academicians, industrial professionals and farmers. Experts from industries deliver guest lectures and interact with students on various aspects. Industries and other professional organizations visit institute for campus interview and placements. Industries also employ students of the institutes based on recommendations of faculty whenever there are vacancies. Surrounding industries always extend their helping hand to organize field and industrial visits. Our College has established MoUs, collaborations and linkages with Biotech and pharma industries, agro-based research labs. Teachers visit industries and other professional organizations along with their students for carrying their research and gain practical knowledge about the working of such units.

☐ Admission of Students:

The university conducted PGCET examination for admission of students in all affiliated colleges under the university. Based on PGCET score, marks in qualifying examination and their preferences the students were allotted seats in the colleges. The admission to students allotted by university was executed by respective departments in the institute as per rules & regulations of the State Government and affiliating university to ensure transparency in admission process.

6.2.2 : Implementation of e-governance in areas of operations:

☐ Planning and Development

The institute maintains the website www.inosca.org. The Vision and Mission Statement, e-prospectus, eligibility criteria for admissions, academic and physical infrastructure facilities available for the students, syllabi, academic calendar, admission procedure, are displayed on the institutional website. Most of the communication related with planning and development are executed through e-mail.

☐ Administration

The Administration of the Institute functions with E-governance system at Government and institute level. The institute is connected through high-speed internet of bandwidth 10 MBPS. The institute implements online MIS in order to provide vital institute statistics to the State Government. The Institute participated in online AISHE system to update the Central Government regarding institute's current academic information. Every year the institute participates in online affiliation process of the affiliating university and ensures the adherence to the prescribed guidelines. The Institute has Biometric attendance for teaching and non-teaching staff. The Institute campus is equipped with CCTV Cameras at Strategic places to maintain discipline and ensure safety of students, staff and campus on the whole.

- Finance and Accounts

The college uses the Sevarth system for preparation and disbursement of salary bills. The purchases are done through Gem portal or e-tendering as per government procedure. Online tenders, tender publication, opening and purchase order issue is through online Maha-Tender system. The payments of salaries to staff and payments above Rs 100/ to suppliers and vendors are done through Central Master Pay System (CMP) which involves electronic transfer of money via Bank account.

☐ Student Admission and Support

Institute processes admission through departmental admission committees. The students are provided with computational facilities for Scholarship Form filling. The affiliating university conducted PGCET exam for admission of students to various affiliated colleges. The procedure for application and processing of the applications was done online. The admission committee of the institute acted as liaison in this online admission process. The seats for students were allotted based on merit in PGCET.

☐ Examination

The College has the separate Examination committee for conducting mid-term and End-term internal examination. The institute participates in online pre and post examination processes of university exam such as exam form filling and submission, hall ticket generation and printing, internal marks uploading, practical marks uploading etc.

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
-	Nil	Nil	Nil	Nil

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non-teaching staff during the year

Year	Title of the professional Development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Nonteaching staff)
	Nil	Nil	Nil	Nil	Nil

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
UGC sponsored, STC [MOOC e content development and open educational resources], HRDC, Dr. B. A. M. U., Aurangabad	Dr. A. G. Jadhav	20.01.2019 to 27.01.2019
UGC-HRDC 121 st Orientation Programme.	Mrs. P. M. Sonawane	01.01.2019 to 31.01.2019
ARPIT course on “Innovation and Best Practices in Educational Skills”	Mr. I. R. Gupta	01.11.2018 to 28.02.2019

Annual Refresher Program in Teaching (ARPIT) in Biotechnology, MOOC- on SWAYAM portal organized by HRD Ministry, Gov. of India.	Mr. H. P. Panakkal	01.11.2018 to 28.02.2019	
ARPIT course for Career Advancement Scheme (CAS) Biotechnology, organized by UGC, Rajasthan at Udaipur.	Mr. H. P. Panakkal	30.03.2019	
Genomic Data Science with Galaxy, A MOOC course from Johns Hopkins University Bloomberg School of Public Health, on Coursera web portal (4 weeks).	Mr. H. P. Panakkal	30.05.2018 to 28.08.2018	
Python for Genomic Data Science, A MOOC course from Johns Hopkins University Bloomberg School of Public Health, on Coursera web portal (4 weeks).	Mr. H. P. Panakkal	17.09.2018 to 14.10.2018	
UGC Sponsored Refresher Course in Life Sciences (Interdisciplinary), Batch XIV organized by University of Madras, Chennai	Mr. Vinod W. Patil	01-02-2019 to 21-02-2019	
Swayam ARPIT Online Course on 'Student Assessment and Evaluation'.	Mr. Vinod W. Patil	Certification date 30-03-2019	
UGC-Sponsored 44th Orientation Programme organized by HRD Centre, Sant Gadge Baba Amravati University, Amravati.	Dr. M. N. Bokhad	03-12-2018 to 31-12-2018	
UGC-Sponsored 44th Orientation Programme organized by HRD Centre, Sant Gadge Baba Amravati University, Amravati.	Ms. Vanashree J. Parsodkar	03-12-2018 to 31-12-2018	
6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
22	22	17	17 FT
6.3.5 Welfare schemes for			
Teaching	Co-operative society, housing loans, vehicle loans, computer loans, medical reimbursement facility		
Non-teaching	Co-operative society, residential quarters, medical reimbursement facility.		
Students	Scholarships, Earn-and-learn scheme, Book Bank facility		

6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)				
This Institute is run by Department of Higher and Technical Education, Govt. of Maharashtra. Therefore, internal financial audit provision is not permissible. However, regular or periodical audit and office inspection is done by competent authorities.				
6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)				
Name of the non- government funding agencies/ individuals	Funds/ Grants received in Rs.		Purpose	
Nil	Nil		Nil	
6.4.3 Total corpus fund generated- Nil				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University Affiliation	Yes	Audit Committee
Administrative	No	-	Yes	Audit Committee
6.5.2 Activities and support from the Parent – Teacher Association (at least three)				
<ul style="list-style-type: none">• Parent-teacher association is not established in the Institute. However, parents are invited for feedback on the curriculum. Parents and teachers meet regularly and parents are kept apprised of the Departmental and Institutional activities.• Each year parents’ meet is held in all the Departments. During the meetings, the students, their parents, Director of the Institute, Heads of the Departments and faculty members have a healthy interaction cum discussion on different issues concerning overall improvement and sustenance of quality in the education being imparted through the different courses in the Institute. Teachers give regular feedback to parents regarding the progress of students.				
6.5.3 Development programmes for support staff (at least three)				
<ul style="list-style-type: none">• The non-teaching staff members are motivated to use computers for the maintenance of the records, admission process and other departmental work.• The non-teaching staff members are encouraged to participate in training programs				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
Section	Item		Initiatives undertaken	
2.1	Curricular Aspects			
2.1.2	Academic flexibility		CBCS has been introduced in the Institute since 2015-16. Students have the choice of selecting one service course out of those offered by the affiliating University.	

2.1.4	Feedback system	<p>Feedback is collected, analyzed and recommendations are given to respective departments for implementation and improvements in teaching-learning.</p> <p>Feedback is collected by designated personnel from another department in order to maintain transparency. In order to gauge the satisfaction level of students regarding the teaching-learning experience in the Institute, Student Satisfaction Survey is conducted for students graduating out from the institute.</p>
2.2.2	Catering to student diversity	<p>Freshers are offered induction program in the form of Departmental counseling by HODs and faculty. In addition, Library orientation in order to allow them to get acquainted with huge reading resources and facilities available in the Central Library.</p>
2.2.6	Student performance and learning outcomes	<p>Necessary initiation for Academic and administrative audit has commenced. The internal audit has been carried out by designated faculty from the Institute. The necessary inputs for external audit by affiliating University has been submitted.</p>

2.3.2	Research mobilization for research	Faculty members are encouraged to apply for research funding.
2.3.3	Research facilities	Up gradation of research facilities is being continued. Laboratory utilities and equipment have been procured through DPDC funding. Sophisticated instrumentation as a central facility is being maintained in allied departments owing to paucity of trained staff for maintenance.
2.3.4	Research publications and awards	Faculty members are encouraged to publish papers in UGC listed journals. Students participated and presented research work in conferences and competitions. An Indian Patent is granted to a faculty member. One more patent is being filed at IPO, Mumbai. Faculty members and students received awards and honours for innovations.
2.3.5	Consultancy	Necessary steps for exploring various avenues for consultancy utilizing faculty potential are being taken. At present, faculty members provide consultancy in ground water exploration, water analysis, forensic investigations and gamma irradiation.

2.4	Infrastructure and Learning resources	
2.4.1	Physical facilities	Proposal for canteen facility is submitted to concerned government agency, viz. (PWD). However, due to paucity of funds, the facility could not be established.
2.4.3	IT infrastructure	Wi-Fi facility is augmented in order to provide better internet connectivity to staff and students.
2.5.2	Student progression	Students are provided guidance on career opportunities and competitive exams preparation. Placement initiatives are undertaken by the Placement Cell for on-campus and off-campus recruitment. A total of 14 students qualified National level competitive exams and 35 students were placed in industry and academics through Placement Cell.
2.5.3	Student participation and activities	Students encouraged to participate in co-curricular and extra-curricular activities. Students actively participate in annual cultural programme and sports organized by the Institute and other institutions. Students are mentored individually for participation in Avishkar Competitions as well as for Summer Research Fellowships.

2.7.1	Environment consciousness	Students carry out biodiversity analysis in the institute campus. The green coverage of the Institute is enhanced through the activities of NSS unit.		
2.2.4	Vacant teaching posts	Three vacant posts of Assistant Professor in the Botany Department are filled up.		
6.5.5 a. Submission of Data for AISHE portal : (Yes /No)- Yes b. Participation in NIRF : (Yes /No)- No c. ISO Certification : (Yes /No)- No d. NBA or any other quality audit : (Yes /No)- No				
6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to----- --)	Number of participants
2018-19	Regular meeting of Internal Quality Assurance Cell (IQAC).	26-10-2018, 03-11-2018, 20-04-2019.	As per schedule	Participants= 07 Participants= 19 Participants= 10
2018-19	Seminar on “Deep sea and Antarctic Biology” by Dr. Baban Ingole, Scientist-G, National Institute of Oceanography (NIO), Goa.	05-09-2018	10.20 am to 12 noon	All students and faculty= 203
2018-19	Motivational article published by Dr. A. V. Pethkar for students “Vidyarthi Amche....Ladke” in Yuvakkranti magazine under Poornavaad Yuva Forum, Parner, Dist. Ahmednagar (India), published by Shree Vimal Publishers Pvt. Ltd. Parner, article no. 7.	23-03-2019	NA	All students= 181

2018-19	Feedback from students, alumni and parents collected, analyzed and recommendations given to respective Departments for improvements	2018-19	NA	Feedback= 75 respondents, Student Satisfaction Survey= 28 respondents, Parents' feedback= 28 respondents.
2018-19	Academic Administrative Audit (AAA) conducted	26/29-02-2020	NA	All staff= 38, internal audit conducted by one-person committee= 01
2018-19	Students were encouraged to participate in the Open Day function and present the respective Department Activities to visiting school and college students.	14-08-2018	11am to 6pm	Students deputed by respective Departments= 50
2018-19	Students encouraged to participate in cultural activities, sports and extension activities organized by the NSS unit.	2018-19	As per schedule	All students= 203
2018-19	Faculty members encouraged to focus on student mentoring, devote to research activities, establish academic linkages, organize seminars, conferences, etc. and student-centric activities such as excursions, educational visits, placements, guidance for competitive exam preparations, etc.	NA	NA	Papers published= 26, Chapters in books= 02 Presentations in conferences= 26, Resource persons= 16, Indian patents= 01 Placements= 35, NET/SET qualified students= 14, Ph/Ds awarded= 04.
2018-19	National Science Day celebrated by organizing 2 competitions on Innovative Scientific Theme Presentation- a Poster Competition and a 2-minute Oral Presentation competition.	28-02-2019	11.00 am onwards	Poster competition- 13 participants Oral Presentation- 17 participants

2018-19	Students motivated and honoured for the performance in final year PG examination by awarding Prin. S. P. Nanir Gold Medal to the M.Sc. Part II Department Topper in the subject of Botany under the aegis of the Alumni of Botany Department.	03.02.2020	1 Day	01 awardee
2018-19	Students encouraged to participate in cultural activities, sports and extension activities. NSS unit was encouraged to carry out unique activities for developing sensitivity towards the society, environment and the Nation and for upliftment of society through awareness programmes. Blood donation camp and dental check-up camp were organized for students and local residents. Awareness campaigns on electoral rights in residential areas adjoining Institute campus and in adopted village Georai Kuber were organized. NSS volunteers encouraged to participate in “Clean City” campaign, and mega tree plantation programme under initiatives of the State Government and an NGO. Water	Throughout the year	During working hours	Students and NSS volunteers= 100

	conservation activity, “plastic-free” campaign wall paintings with social messages advising villagers about government schemes, study of lifestyle and livelihood of village residents, biodiversity awareness activities were carried out in the adopted village.			
2018-19	Encouraging Women’s Redressal Cell to organize Programmes on Gender Equity.	08.03.2019	As per schedule	Elocution competition on “Stree chi yashogatha (Success story of Women)” on the occasion of Women’s Day, attended by all students and staff= 220.
2018-19	Encouraging Women’s Redressal Cell to organize Programmes on Gender Equity.	05.10.2018	As per schedule	One-day workshop Women Empowerment-Challenges and Strategies, attended by all students and staff= 220.
2018-19	Students encouraged to participate in Avishkar-18 research competition, poster competitions, paper presentations and extracurricular activities.	Semester I and III	As per schedule	10 PG students and 03 Research students participated in District Level Avishkar Competition in the 2 nd (oral presentation) Round at Deogiri College, Aurangabad and amongst them, 02 PG students and 02 Research students were selected for University Level Avishkar-18 Competition at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. Students presented 16 papers/posters in conferences and various competitions and some students won awards. 01 student received Indian patent.

2018-19	Mentoring the students of M.Sc. I Microbiology for submission of research proposals for Summer Research Fellowships 2019 (National Academies of Science). 03 PG students were mentored thoroughly for preparation of proposals for Summer Research Fellowships 2019 (under National Academies of Science). Students were guided for topic selection, statement of purpose, plan of work and expected research outcome/s by Dr. A. V. Pethkar and Dr. Mrs. S. A. Peshwe.	Throughout the year	NA	Amongst the 03 PG students, 01 student was selected for Summer Research Fellowship 2019 at University of Delhi (South Campus) for over 2 months extensive laboratory training in Gene Cloning Techniques.
2018-19	Faculty members encouraged to focus on student mentoring, devote to research activities, submit research proposals for funding, establish academic linkages, organize seminars, conferences, etc. and student-centric activities such as excursions, educational visits, placements, etc.	Throughout the year	NA	All faculty members= 22
2018-19	Tapping of funds from different funding agencies for development of infrastructure, received funds from DPDC for lab equipment, chemicals/consumables. RUSA committee carried out active persuasion to get RUSA funds.	Throughout the year	NA	DPDC and RUSA Committees constituted for application and active persuasion to obtain funds from DPDC, RUSA and the State Government.

2018-19	Faculty members encouraged to participate in PG/UG syllabus restructuring, revisions as per current trends in respective subjects.	Specified dates	NA	08 faculty members are members of BoS in the respective subjects of various Universities and the affiliating University and they actively contribute towards the revision/ reframing of syllabi, viz. Mrs. V. N. Wadekar- Ad-hoc BoS in Biophysics, Mr. H. P. Panakkal- Ad-hoc BoS in Biotechnology, Prof. U. K. Patil- member BoS in Microbiology at Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Dr. A. V. Pethkar- BoS in Microbiology, Dr. A. G. Jadhav- Ad-hoc BoS in Bioinformatics, Dr. M. A. Sonar- BoS in Geology and member of Academic Body of Gondwana Geological Society, Nagpur, Mr. S. G. Kulkarni- Ad-hoc BoS in Biophysics and member BoS in Biophysics of SRTM University, Nanded, Dr. S. M. Deshpande- member BoE and Member, RRC of affiliating University.
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7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
One Day State Level Workshop on Women Empowerment- Challenges and Strategies organized by Govt. Institute of Science, Aurangabad in	05.10.2018	Students and staff from various	Students and staff from various

collaboration with Maharashtra State Commission for Women.		colleges in Aurangabad	colleges in Aurangabad
Women's Day Programme, Elocution competition on "Stree chi yashogatha (Success story of Women)".	08.03.2019	19	09

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:
Percentage of power requirement of the College met by the renewable energy sources

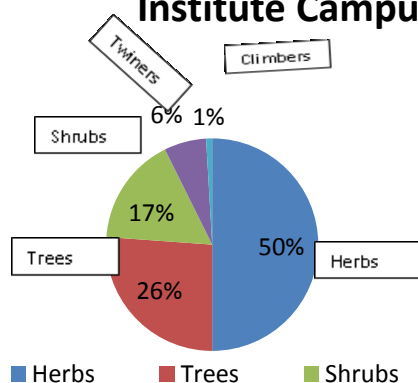
- An innovative and massive programme for tree plantation was organized on 16 July 2018 under the Govt. of Maharashtra's 10 crore tree plantation initiative. The work was carried out jointly with the NSS Unit of the affiliating University and involved preparation of seed-balls and tree plantation in hilly areas surrounding the Institute and University campus.
- On the occasion of Ashadhi Ekadashi on 23 July 2018 the NSS volunteers joined the initiative undertaken by Center of Applied Research and People's Engagement (CARPE) in the Cleanliness Campaign during Pandharpur Wari/Yatra (a holy pilgrimage). About 1500 Kg of food waste that was generated was cleaned by the volunteers. The volunteers also requested the pilgrims to not litter and created awareness on cleanliness and hygiene.
- A Rally for awareness on health and environment was organized on Independence Day, 15 August 2018.
- A Cleanliness campaign was organized during 24 Sept. 2018-02 Oct. 2018 in the Institute campus on the occasion of Mahatma Gandhi's Birthday. A number of activities were carried out, viz. drawing competition and quiz competition on Gandhiji's life and messages, plastic-free campus initiative, lecture by Dr. K. M. Wanjarwadkar (Associate Professor, Geology Department) on water conservation and rally for awareness on prevention of addictions.
- Awareness on environment, health and hygiene for children residing in adopted village- Georai Kuber was organized on 4th Feb. 2019. On 5th Feb. 2019, a Medical and Dental check-up camp was organized for residents of Georai Kuber. Environmental consciousness was imbibed amongst school children by advising them to use cloth bags instead of plastic bags.
- The importance of clean and green environment was emphasized by Dr. S. G. Narwade, Govt. Institute of Forensic Science, Aurangabad through his talk on "Cleanliness and life" on 6 Feb. 2019 for residents of adopted village- Georai Kuber. A cleanliness campaign was undertaken followed by painting walls of local healthcare center with messages and pictures on prevention of addiction, waste management and environmental issues.
- The interest of NSS volunteers regarding the environment was kept alive through a Biodiversity Field Study of the forest region near Georai Kuber on 7 Feb. 2019 by Dr. M. N. Bokhad (Asst. Professor, Dept. of Botany and NSS Programme Officer, Govt. Institute of Science, Aurangabad). The importance of environment protection and conservation of biodiversity was appreciated by NSS volunteers and the local residents.
- During the NSS Special Camping Programme at the adopted village, Georai Kuber, efforts were undertaken for water conservation by desilting of a lake in the region. The silt was stored in large pits for using later as a fertilizer. Dr. K. M. Wanjarwadkar, (Asso. Professor, Geology, Govt. Institute of Science, Aurangabad) delivered a presentation on "Groundwater Recharge" for NSS volunteers and residents of Georai Kuber on 8 Feb. 2019. , This was followed by a presentation by Dr. A. N. Salve (Asso. Professor, Botany, Govt. Institute of Science, Aurangabad) on "Importance of tree plantation to increase groundwater level" to stress the need for environmental security. In

order to understand the importance of environment and its impact on the people, a survey on livelihood and lifestyle of the residents of Georai Kuber was carried out by NSS volunteers.

- Fluorescent tube lights are being replaced by LED lights in laboratory buildings.
- Solar power is used in Hostels for water heating and in Biophysics Department for water distillation.
- Each department of the Institute ensures proper disposal of the potentially hazardous material/waste generated in the laboratories.
- Electronic instruments and computers are used with great care in order to prevent break down of the instruments. This minimizes the generation of e-waste. Instruments beyond repairs are being processed for write-off procedures as per the Government norms.
- The faculty members of Botany Department assign the task of numbering the tree to the students as a part of practical/project work. The department has planted a number of rare and endangered medicinal plants in the Botanical Garden and in the campus. The study conducted revealed that the Institute is rich in floristic diversity representing a total of 55 families of angiosperms. A total of 218 species were recorded from the Institute campus. Grasses and shrubs are seasonal but the trees and climbers are perennial and contribute to the greenery of the campus. In the vicinity of the campus, is the Aurangabad Caves plateau which is densely covered in the rainy season with the ephemerals and some of the rare plants, viz. *Ceropegia bulbosa* Roxb. *Chlorophytum tuberosum* (Roxb.) Baker, *Plumbago zeylanica* L. *Scilla indica* Roxb. *Utricularia* spp., *Woodfordia fruticosa* (L.) Kurz.. The growth of these vegetation indicates that environment is free from pollution.
- *Dalbergia sissoo* plants are naturally growing in the Institute campus, and they were conserved by regular trimming, pruning and watering practices. In all 270 plants were conserved along with the *Azadirachta*, *Ficus bengalensis*, *Ficus religiosa*, *Pongamia pinnata* and *Zyzipus*. The plants have grown in 6 quadrants that were constructed for landscape purpose.

	Dicotyledons			Monocotyledons	Totals
	Ploypetalae	Gamopetalae	Monochlamydeae		
Families	17	29	4	5	55
Genera	78	70	14	12	174
Species	83	104	12	19	218

Number of species occurring in the Institute Campus



7.1.3 Differently abled (Divyangjan) friendliness						
Items /Facilities		Yes/No		No. of Beneficiaries		
Provision for lift		No		None		
Ramp/ Rails		Yes		None		
Braille Software/facilities		No		None		
Rest Rooms		No		None		
Scribes for examination		No, will be made available as per need		None		
Special skill development for differently abled students		No		None		
Any other similar facility		No		None		
7.1.4 Inclusion and Situatedness						
Enlist most important initiatives taken to address locational advantages and disadvantages during the year						
Year	Number of initiatives to Address locational advantages and disadvantages	Number of Initiatives taken to engage with And contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
All years	Due to close proximity to the affiliating university the students and staff of the institute could attend Ph.D. vivo voce examination	NA	As per Ph.D. examination schedule	Attendance at Ph D. vivo voce	Giving exposure to PG and research students from institute to academic deliberations of Ph.D. vivo voce	Students of concerned subject (Geology)
All years	Due to close proximity to the affiliating university, the PG students can opt for various subjects of their own interest under the mandatory Service Course available within the University Campus.	07 subjects, viz. Positive psychology , Plant tissue culture, Archaeology, Fine arts, Environme	Semester III each year	Selection of the Service Course	Availability of subject of choice and the necessary expert faculty to teach the subject.	Students of M.Sc. Part II

		ntal Science, Pisciculture , Personality developme nt.				
All years	Institute being situated in the zone inhabited by lower, lower-middle and middle class community, the rallies organized created social awareness amongst them	Institute being situated in the zone inhibited by lower, lower-middle and middle class community, the rallies organized created social awareness amongst them	As per NSS schedule	Social Awareness Rallies	Lack of awareness about cleanliness, hygiene and environment .	100
All years	Institute being State Government organization could establish the Unique Gamma Irradiation facility outside BARC in the renowned Biophysics department	Academic researchers and professionals from industries	Since July 1985	Establishment of Gamma Irradiation Facility	Research in Radiation Sciences	PG and Research students from and outside institute and industry professionals
All years	Institute campus spreading about 27 acres situated relatively isolated from the city, the unique facility of Gamma Irradiation could be installed and operated keeping in view the safety of general public.	NA	Since July 1985	Establishment of Gamma Irradiation Facility	Radiation Safety	NA

All years	Since the Institute is situated very close to the historical Aurangabad Caves, it gives an opportunity to study the interior part of caves, as they are carved in different types of basaltic rock.	NA	Since July 2013	Experiential Learning-study of rocks and tunnels	Understanding the nature of the tunnels carved out for comparison with modern-day tunnels dug out for roadways, railways and water transport. Due to proximity, students can visit the site frequently and study them at their own pace.	Students of concerned subject (Geology)
All years	Since the Institute is situated very close to Hanuman tekdi, Amodi Hills and Gogababa tekdi, it gives an opportunity to study the various features and flows of Basaltic rocks.	NA	Since July 2013	Experiential Learning-study of rocks and tunnels	Understanding the various features and flows of basaltic rocks such as ropy lava, vesicular structures, amygdules, pipe structure, spheroidal structures, etc. Due to proximity, students can visit the site frequently and study them at their	Students of concerned subject (Geology)

					own pace.	
All years	Since Institute is situated behind the Dr. Babasaheb Ambedkar Marathwada University, this also helped us to visit often the different dugwells present in campus of university to learn the subsurface geology and compare it with the dugwells present in campus of Institute.	NA	Since July 2013	Experiential Learning-study of subsurface geology	Learning the subsurface geology and comparing it with dugwells in the Institute campus for predicting possibility of water bearing horizon. The knowledge prepares students to take up professional career as Hydrogeologist/ Geologist.	Students of concerned subject (Geology)
All years	Since the Institute is situated very close hilly terian, it gives an opportunity to study the various joint patterns and their effects on groundwater and hydrogeology.	NA	Since July 2013	Experiential Learning-study of subsurface geology	Joint patterns in the hilly region allow students to learn structures responsible for waterfalls present in this area and springs which come from different basaltic lava flow contacts.	Students of concerned subject (Geology)

7.1.5 Human Values and Professional Ethics			
Code of conduct (handbooks) for various stakeholders			
Title	Date of Publication	Follow up (maximum 100 words each)	
Institute Website	First Published in September 2006, updated periodically	Institution Website displays the Code of Conduct for students, Code of Ethics for faculty members and non-teaching staff and the prospectus also includes the core values to be achieved Weblink: www.inosca.org	
7.1.6 Activities conducted for promotion of universal Values and Ethics			
S. No.	Activity	Duration (from-to-)	Number of participants
01	Maharana Pratap Jayanti	16-06-2018	All students and staff
02	Rajarshi Shahu Maharaj Jayanti	26-06-2018	All students and staff
03	Vasantrao Naik Jayanti	01-07-2018	All students and staff
04	Lokmanya Balgangadhar Tilak Jayanti	23-07-2018	All students and staff
05	Sahityaratna Annabhau Sathe Jayanti	01-08-2018	All students and staff
06	Krantisinha Nana Patil Jayanti	03-08-2018	All students and staff
07	Sadbhavana Diwas	20-08-2018	All students and staff
08	Raje Umaji Naik Jayanti	07-09-2018	All students and staff
09	Pandit Dindayal Upadhaya Jayanti	25-09-2018	All students and staff
10	Mahatma Gandhi & Lal Bahadur Shastri Jayanti	02-10-2018	All students and staff
11	Dr. A.P.J. Abdul Kalam Jayanti	15-10-2018	All students and staff
12	Maharshi Valmiki Jayanti	24-10-2018	All students and staff
13	Indira Gandhi Punyatithi & Rashtriya Sankalp Diwas	31-10-2018	All students and staff
14	Vallabhbhai Patel Jayanti & Rashtriya Ekta Diwas	31-10-2018	All students and staff
15	Pandit Nehru Jayanti	14-11-2018	All students and staff
16	Birsa Munda Jayanti	15-11-2018	All students and staff
17	Indira Gandhi Jayanti & Rashtriya Ekatmata Din	19-11-2018	All students and staff
18	Sanvidhan Diwas	26-11-2018	All students and staff
19	Savitribai Phule Jayanti	03-01-2019	All students and staff
20	Jijau Maasaheb & Swami Vivekanand Jayanti	12-01-2019	All students and staff
21	Netaji Subhashchandra Bose Jayanti	23-01-2019	All students and staff
22	Sant Sewlal Maharaj Jayanti	15-02-2019	All students and staff
23	Chhatrapati Shivaji Maharaj Jayanti	19-02-2019	All students and staff
24	Sant Gadgebaba Maharaj Jayanti	23-02-2019	All students and staff
25	Yashwantrao Chavan Jayanti	12-03-2019	All students and staff
26	Shahid Din	23-03-2019	All students and staff
27	Mahatma Jyotiba Phule Jayanti	11-04-2019	All students and staff
28	Dr. Babasaheb Ambedkar Jayanti	14-04-2019	All students and staff
29	Mahatma Basaveshwar Jayanti	18-04-2019	All students and staff
30	Sant Tukdoji Maharaj Jayanti	30-04-2019	All students and staff
31	Dahshatwad ani Hinsachar Virodhi Diwas	21-05-2019	All students and staff
32	Swatantryaveer Savarkar Jayanti	28-05-2019	All students and staff

33	Ahilyadevi Holkar Jayanti	31-05-2019	All students and staff
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)			
<ul style="list-style-type: none"> • Cleanliness campaign: The NSS volunteers carry out campus cleaning and parthenium grass removal activities throughout the year. The volunteers participate in rallies aimed at spreading the awareness amongst general public and residents of the adopted village- Georai Kuber regarding clean, green and safe environmental and the need to conserve biodiversity, energy and the environment. On the occasion of Ashadhi Ekadashi on 23 July 2018 the NSS volunteers joined the initiative undertaken by Center of Applied Research and People's Engagement (CARPE) in the Cleanliness Campaign during Pandharpur Wari/Yatra (a holy pilgrimage). About 1500 Kg of food waste that was generated was cleaned by the volunteers. The volunteers also requested the pilgrims to not litter and created awareness on cleanliness and hygiene. • Campus Cleaning Programme: An innovative and massive programme for tree plantation was organized on 16 July 2018 under the Govt. of Maharashtra's 10 crore tree plantation initiative. The work was carried out jointly with the NSS Unit of the affiliating University and involved preparation of seed-balls and tree plantation in hilly areas surrounding the Institute and University campus. • Rally for awareness on health and environment was organized on the occasion of Independence Day, 15 August 2018 for residents in the vicinity of the Institute Campus. • Cleanliness campaign was organized during 24 Sept. 2018-02 Oct. 2018 in the Institute campus on the occasion of Mahatma Gandhi's Birthday. A number of activities were carried out, viz. drawing competition and quiz competition on Gandhiji's life and messages, plastic-free campus initiative, lecture by Dr. K. M. Wanjarwadkar (Associate Professor, Geology Department) on water conservation and rally for awareness on prevention of addictions. "Clean City" campaign was organized as per directives of the local administration. • Energy conservation: The Institute has adopted several practices for energy conservation such as minimizing use of energy intensive devices, use of power saving devices, solar equipment and pooling the work elements that are energy intensive. The Institute makes use of power saving CFL bulbs for illumination purposes, LED computer monitors and energy saving air conditioners/refrigerators, etc. The fans and lights are put on only when required. In the Department of Microbiology, the autoclave, ovens, hot plates, etc. are put on by authorized personnel or students only after all material is pooled and repetitious use of the instruments is avoided. • Use of renewable energy: The Department of Biophysics uses solar power operated water distillation unit to save energy. Solar water heater is installed in the Boys Hostel to provide hot water to the students. • Water Harvesting and Check Dam Construction: The NSS unit of the Institute carried out desilting of a lake in the adopted village, Georai Kuber for the purpose of water conservation. • Production of fertilizer: Silt removed from a large lake in adopted village, Georai Kuber was stored in large pits for conversion into fertilizer. The effort will subsequently result in restoring the health and nutritional status of the agricultural land. • Efforts for Carbon neutrality: The Institute staff makes minimal use of paper and green-house gas emitting devices. The Institute is about to install e-governance system in order to have paperless office. 			

<p>Minimization of paper is an attempt to reduce the cutting down of trees for paper manufacturing. The Institute encourages new tree plantation within the campus and also in the surrounding areas.</p> <ul style="list-style-type: none"> • Tree Plantation: The Institute has carried out tree plantation within the campus under the NSS regular programmes. The faculty members of Botany Department assign the task of numbering the tree to the students as a part of practical/project work. The department has planted a number of rare and endangered medicinal plants in the Botanical Garden and in the campus. The department distributes plantlets to the students for plantation in their residential areas or in the Institute campus. • Hazardous waste management: Each department of the Institute ensures proper disposal of the potentially hazardous material/waste generated in the laboratories. The Microbiology, Biotechnology, Biophysics and Botany Departments sterilize all waste microbial cultures by autoclaving prior to disposal. Chemicals such as polyacrylamide and other hazardous chemicals are disposed using proper care. • E-waste management: Electronic instruments and computers are used with great care in order to prevent break down of the instruments. This minimizes the generation of e-waste. Instruments beyond repairs are being processed for write-off procedures as per the Government norms. • Biowaste management: In order to reduce the biological waste generation, books are gifted to guests and awarded to staff/students instead of flowers and bouquets.
<p>7.2 Best Practices</p> <p>Describe at least two institutional best practices Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link</p> <p>http://www.inosca.org/iqac/best-practices-2018-19.pdf</p>
<p>7.3 Institutional Distinctiveness</p> <p>Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust. Provide the weblink of the institution in not more than 500 words</p> <p>http://www.inosca.org/iqac/institutional-distinctiveness.pdf</p>
<p>8. Future Plans of action for next academic year (500 words)</p> <ul style="list-style-type: none"> • Tapping of funds from different funding agencies for development of infrastructure. • Mentoring the PG students for submission of research proposals for Summer Research Fellowships 2020 (SRF-2020) under National Academies of Science. • Encouraging faculty members to participate in the framing and revision of syllabus as a part of various committees in the University. • Encouraging faculty members to participate in Faculty Development Programs for enhancing the knowledge horizons and career progression • Encouraging staff members to submit collaborative research projects to various funding agencies, pursue research work, and publish papers in peer reviewed, refereed and UGC-listed, scopus-indexed and high impact factor journals. Encouraging faculty members to participate in and organize conferences. • Advising all Departments to submit uniform time-table of lectures considering slot for service course lectures and to take measures to ensure 100% student attendance for theory and practical sessions.

- Urging faculty members to organize workshops on Preparation for Competitive Exams and encouraging the Placement cell to organize on-campus and off-campus placement activities and career guidance programmes.
- Encouraging NSS unit to carry out unique activities for developing sensitivity in the students towards the society, environment and the Nation and for upliftment of society through various awareness programmes.
- Motivating students to participate in Avishkar-19 research competition paper, poster competitions, presentations and extracurricular activities
- Encouraging faculty members to organize lectures of eminent scientists to provide students with a glimpse of current trends in scientific research. Designing and implementation of different activities aimed at improvement of student skill and knowledge through Series and Workshops Lecture invited talks of experts and professionals from industry/ academia and implement good mentoring practices.
- Developing academic linkages with other institutions for providing opportunity to the students to undertake summer/winter training programmes, on-field trainings and experiential learning.
- Encouraging students to visit different departments and interact with faculty members to get information about other subjects and expertise of other departments. Library Orientation aimed at introducing the rich knowledge resources available in the Central Library.
- Motivating faculty members to arrange programmes aimed at nurturing and enhancing the scientific communication skills of the students.
- Arranging and execution of study tour for keeping abreast with recent trends across fields related to subject.
- Active promotion of student participation in seminars, presentations, extracurricular activities, summer training, national/international symposia, conferences and workshops.
- Building and sustenance of platform for interaction of stakeholders associated with the Institute.
- Collection of feedback from stake holders for improving the teaching-learning process.
- Mobilizing students initiatives to organize science activities through student clubs in the various departments.
- Encouraging student participate in cultural activities and sports organized by the Institute and other institutes.
- Initiatives to spread awareness about COVID-19 among students and the general public.
- Work distribution and planning for preparation and submission of pending AQAR reports.

Name- Dr. Aniroodha V. Pethkar

Signature of the Coordinator, IQAC

Name- Prof. Rajendra A. Satpute



Signature of the Chairperson, IQAC
