



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	INSTITUTE OF SCIENCE, AURANGABAD
Name of the head of the Institution	Prof. Rajendra A. Satpute
Designation	Director(in-charge)
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02402400586
Mobile no.	9404012456
Registered Email	director@inosca.org
Alternate Email	iqacgis@gmail.com
Address	Nipatniranjan Nagar, Caves road
City/Town	Aurangabad
State/UT	Maharashtra
Pincode	431004
2. Institutional Status	

Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>state</b>
Name of the IQAC co-ordinator/Director	<b>Dr. Aniroodha V. Pethkar</b>
Phone no/Alternate Phone no.	<b>02402400598</b>
Mobile no.	<b>9833494261</b>
Registered Email	<b>iqacgis@gmail.com</b>
Alternate Email	<b>avpethkar@yahoo.com</b>

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.inosca.org/iqac/aqar-2018-19.pdf">http://www.inosca.org/iqac/aqar-2018-19.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes, whether it is uploaded in the institutional website: Weblink :	<a href="http://www.inosca.org/iqac/academic-calendar-2019-20.pdf">http://www.inosca.org/iqac/academic-calendar-2019-20.pdf</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
<b>1</b>	<b>B++</b>	<b>85</b>	<b>2004</b>	<b>16-Sep-2004</b>	<b>15-Sep-2009</b>
<b>2</b>	<b>B</b>	<b>2.74</b>	<b>2016</b>	<b>29-Mar-2016</b>	<b>28-Mar-2021</b>

<b>6. Date of Establishment of IQAC</b>	<b>15-Jan-2005</b>
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### 7. Internal Quality Assurance System

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
<b>Department of Biotechnology organized a</b>	<b>01-Oct-2019</b> <b>1</b>	<b>24</b>

debate competition on		
Department of Biotechnology celebrated	14-Nov-2019 1	8
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-Feb-2020 1	235
A special program was organized for spreading awareness about avoiding the wastage of food.	07-Sep-2019 1	235
Seminar and Interactive Session on Summer Research Fellowship Program-2020 of the National Science Academies	29-Nov-2019 1	196
Department of Geology organized Pre-Ph.D. course for all Geology Research Students of the affiliating University in the Institute campus.	18-Jan-2020 57	25
Department of Microbiology organized visits of the M.Sc. I students to the various departments.	02-Aug-2019 4	21
Seminar and Interactive Session on Toxicology	10-Dec-2019 1	218
Regular meeting of Internal Quality Assurance Cell (IQAC).	14-Jan-2020 1	10
Regular meeting of Internal Quality Assurance Cell (IQAC).	06-Aug-2019 1	12
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institute of Science, Aurangabad	Salary	State Govt.	2019 180	62492000
Institute of Science,	Academic facilities	State Govt.	2019 180	752000

Aurangabad				
Institute of Science, Aurangabad	Miscellaneous	State Govt.	2019 180	7070000
Institute of Science, Aurangabad	Earn and Learn	Affiliating Univ.	2019 180	5000
Institute of Science, Aurangabad	NSS	Affiliating Univ.	2019 180	44500
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	

• Tapping of funds from different funding agencies for development of infrastructure. Funding was received from DPDC and RUSA through the efforts of special committees constituted for the purpose. • Mentoring the PG students for submission of research proposals for Summer Research Fellowships 2020 (SRF2020) under National Academies of Science. Students were guided by faculty members for writing research proposals and resume. Mr. Jameel Hussain, a PG student who completed SRF2019 delivered interactive presentation and guided other students to submit applications for SRF2020 through initiatives of the IQAC and Microcosm Student Club of Microbiology. • The faculty members were encouraged to participate in the framing and revision of syllabus as a part of University constituted committees. A total of 10 faculty members actively contribute to syllabus revisions and reframing as members of University constituted committees such as BoS. • 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 UGListed, scopusindexed and high impact factor journals, develop intellectual property, communicate with the scientific community and organize conferences, guest lectures, seminars, etc. Faculty members, viz. Dr. A. N. Salve and Dr. A. V. Pethkar submitted proposals for collaborative research projects.

Mr. S. G. Kulkarni and Mrs. V. N. Wadekar recommended and forwarded the research proposal (under International Collaboration) for Ramlingaswami Reentry Fellowship 201920 of Department of Biotechnology, Government of India. • All Departments were advised to submit uniform timetable 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. • Urging faculty members to organize workshops on Preparations for Competitive Examinations and encouraging the Placement cell to organize oncampus and offcampus placement activities and career guidance programmes involving professionals, industry experts and alumni. Ten students got placements and five students qualified National Level competitive examinations. The number of placements is expected to increase after the end of COVID19 pandemic crisis. • 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. • In order to acquaint students with latest trends in Life and Health Sciences, a Seminar and Interactive Session on Toxicology, "Toxicologist a gatekeeper redefining biomedical research" by Dr. Saurabh Vispute (Senior Scientist at Pfizer, Connecticut, USA) was jointly organized by the IQAC and MicroCosm Students' Club of Department of Microbiology. Department of Microbiology organized 19th National Level MicrobioCanvas competition, a National Level Microbiolympiad Competition and Innovative Scientific Theme Presentation competitions with overwhelming success. Interactive session on "Personality Development" by Prof. Satish Mokashi, Professor, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, was organized for the benefit of all students. • Motivating students to take initiatives in organizing science activities through the formation of student clubs in the various departments. Students' council of Department of Biotechnology celebrated "Biotechnology Day" on 14.11.2019 by organizing Speech Competition for the students. The members of Students' Council of Biotechnology organized various other activities such as debate competition on 01.10.2019 and poster competition on 16.10.2019. MicroCosm student club of Microbiology Department organized National Science Day programme (28.02.2020), Intercollegiate Research Paper Presentation Competition to celebrate 197th Birth Anniversary of Sir Louis Pasteur (27.12.2020), online National Level Microbiological Contest (25.01.2020), 19th National Level MicrobioCanvas competition (25.01.2020), and 19th National Level Microbiolympiad Competition with overwhelming success (15.02.2020). • Motivating students to participate in Avishkar19 research competition, paper/poster presentation competitions and extracurricular activities. A total of 04 participants (2 PG and 2 Research Students) were selected for State level Avishkar at Mumbai University. • PG and Research students participated and succeeded in poster and oral presentation competitions. Students delivered presentations in conferences and demonstrated their capacity to present scientific data. • Department of Microbiology organized visits of the M.Sc. I students to the Central Library and other departments and facilities within the Institute with the aim of providing them additional knowledge about the laboratory facilities and expertise of other departments which will be useful to them for research projects in the final year. • Faculty members were encouraged to arrange study tours, summer/winter trainings, links with academic institutions, excursions, field visits and industry visits for keeping abreast with recent trends across fields related with the subject and to provide experiential learning to the students. • Encouraging students to participate in cultural activities and sports organized by the Institute and other institutions. Students actively participated in sports and cultural activities. This resulted in allround development of the students and physical and mental fitness. • Feedback from students collected and analysed. Necessary suggestions for improvement in teachinglearning 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. • NSS unit was encouraged to organize unique extension activities for benefit of local residents, and increase sensitivity of students for the various social problems. Activities included spreading awareness about avoiding the wastage of food (under "Save Food Save Nation" an NGO from Aurangabad), documentaries, movies and clips on the living and lifestyles of the people of Orissa State under "Ek Bharat Shreshtha Bharat" initiative of Govt. of India, cleanliness campaigns, cleaning of dug wells, water conservation activities and tree plantations in Soneri Mahal area and Institute campus. Orientation lectures on fundamental rights of Indian citizens, responsibilities of the youth, personality development, modern scientific approach of modern youth, Gandhian thoughts and their relevance to mankind were arranged. Other important activities included pledge for tobacco free youth, road safety programme and awareness on electoral rights of citizens, participation of NSS volunteers in State Level Residential Camps at Shendurni, Jalgaon and Sakri, Dhule under "Ek Bharat Shreshtha Bharat" initiative. • Initiatives to spread awareness about COVID19 among students and the general public. IQAC took up the initiative to spread awareness on COVID19 amongst students and general public. An online survey was carried out at two levels General Level and Advanced Level using social media platforms such as Whatsapp and email. About 1000 participants participated in the survey and certificates with grades were distributed to the participants. Department of Microbiology, Department of Biotechnology and Department of Botany also designed online and socialmedia based approaches to spread awareness on COVID19 and how to remain safe in the pandemic. Students of Botany Department appealed the public using Twitter Platform and Whatsapp. • Feedback was collected from students, alumni and parents. The feedback was analyzed and recommendations given to respective Departments for improvements. • Work distribution and planning for preparation and submission of pending AQAR reports. The IQAC took stock of status of the pending AQAR reports and took immediate steps to submit the reports before the due date.

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

Plan of Action	Achivements/Outcomes
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. Funding of Rs. 2 crore was sanctioned by RUSA for infrastructure development, laboratory equipment and consumables.
Mentoring the PG students for submission of research proposals for Summer Research Fellowships 2020 (SRF-2020) under National Academies of Science.	06 PG students were mentored for submission of research proposals. Students were guided for preparation of resume, selection of research topics and preparation of research proposals. Letters of recommendation were provided to the organizers of SRF-2020. Mr. Jameel Hussain (PG Student of M.Sc. II, Microbiology) who was selected for

	<p>SRF-2019 in 2018-19 delivered a seminar and interactive session on Summer Research Fellowship Program-2020 of the National Science Academies by organized by Microcosm- Student Club of Microbiology under the aegis of the IQAC. Although none of the students were selected, they learnt the skills of writing research proposals and preparation of resume.</p>
<p>Encouraging faculty members to participate in the framing and revision of syllabus as a part of various committees in the University.</p>	<p>10 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.</p>
<p>Encouraging faculty members to participate in Faculty Development Programs for enhancing the knowledge horizons and career progression.</p>	<p>Faculty members participated in 20 training programmes such as Orientation and Refresher courses, as well as Short Term Programmes for updating their own subject knowledge.</p>
<p>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.</p>	<p>The faculty members took active interest in research activities. Faculty members of different departments submitted collaborative research proposals to the funding agencies. Faculty members published papers in peer-reviewed journals and chapters in books, presented their work to a wide scientific community, worked as resource persons and received honours/awards for their academic/research accomplishments. One faculty member, Dr. A. V. Pethkar submitted a patent application with complete specifications to the Indian Patent Office, Mumbai. Mr. S. G. Kulkarni and Mrs. V. N. Wadekar, (Department of Biophysics) recommended and forwarded the research proposal (mutually beneficial) entitled 'Characterization of Induced Mutational</p>



Breeding and Protein Oxidation in higher plants' of Dept. alumini Dr Ravidra Kale, Postdoctoral Researcher at Louisiana State University, LA, USA, for Ramlingaswami Re-entry Fellowship 2019-20 of Department of Biotechnology, Government of India under International collaboration. Dr. A. N. Salve (Dept. of Botany) and Dr. A. V. Pethkar (Dept. of Microbiology) submitted collaborative research project to DST under Empowerment and Equity Opportunities for Excellence in Science. Dr. A. V. Pethkar (Dept. of Microbiology) and Dr. A. N. Salve (Dept. of Botany) submitted collaborative project to DBT, Govt. of India under the call for R&D Proposals on "Nanotechnology based tools to enhance agricultural productivity". Dr. A. V. Pethkar submitted to UGC, Govt. of India under Scheme for Trans-disciplinary Research for India's Developing Economy (STRIDE), Component 2. Mr. I. R. Gupta and Dr. A. K. Gade (Dept. of Biotechnology), submitted a major research project to DBT, Govt. India, New Delhi. Dr. A. V. Pethkar (Dept. of Microbiology) and Dr. A. N. Salve (Dept. of Botany) submitted collaborative project to DBT, Govt. of India under ePromis. Since 2005-06, the Institute received funding for 12 Major Research Projects (Rs. 2,08,88,970/-), 29 Minor Research Projects (Rs. 24,20,000/-) with Total Grant of Rs. 2,33,09,170/-. Papers published= 23, Chapters in books= 09, Presentations in conferences= 15, Resource persons= 10, Placements= 10, NET/SET qualified students= 05, students progression for higher education= 01.

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.

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

Students got the opportunity of



<p>workshops on Preparations for Competitive Examinations and encouraging the Placement cell to organize on-campus and off-campus placement activities and career guidance programmes.</p>	<p>participation in programmes aimed at honing their competitive exam skills. A number of programmes were organized to let students know about career opportunities and soft skills development. However, due to the COVID-19 pandemic, only few students (10) got placements through the initiatives of the Placement Cell. A total of 5 students qualified in National Level Competitive Exams such as NET/SET/GATE, etc.</p>
<p>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.</p>	<p>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. Under the "Ek Bharat Shreshtha Bharat" initiative of Govt. of India, documentaries, movies and clips on the living and lifestyles of the people of Orissa State were presented to local residents and NSS volunteers. Cleanliness campaigns, cleaning of dug wells, water conservation activities and tree plantations were carried out in Soneri Mahal area and Institute campus. Orientation lectures on fundamental rights of Indian citizens, responsibilities of the youth, personality development, modern scientific approach of modern youth, Gandhian thoughts and their relevance to mankind were arranged. Other important activities included- pledge for tobacco free youth, road safety programme and awareness on electoral rights of citizens. Cleanliness campaign- cleaning of the Heritage Dug Well (Baarav) near Soneri Mahal in the affiliating University campus. On-line program on Indroduction to the living and lifestyle of the people of Orissa State, cultural and natural heritage of the state and the places to visit in the state. Two NSS volunteers participated in the State Level Residential Camps on "Ek Bharat Shrestha Bharat" at Shendurni (Dist. Jalgaon) and Sakri (Dist. Dhule). A special program was organized for spreading awareness about avoiding the wastage of food. The program was conducted by "Save Food Save Nation"- an NGO from Aurangabad and organized by the NSS unit.</p>

Motivating students to participate in Avishkar-19 research competition, poster competitions, paper presentations and extracurricular activities.	08 PG students and 05 Research students participated in Avishkar-19 University Level Competition. Amongst them, 06 participants were selected for 2nd round and 04 participants (2 PG and 2 Research Students) were selected for State level Avishkar at Mumbai University. A number of students presented posters and papers in seminars, conferences and competitions and won prizes. Students participated in quiz competitions and on-line courses during lock-down period announced by the government due to COVID-19 pandemic. 21 students participated in conferences and presented posters/oral papers. 24 students actively participated in quiz and other science activities.
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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Staff Council	15-Sep-2020

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

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2019

Date of Submission

15-Jan-2019

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief description and a list of modules currently operational (maximum 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 webbased 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 NonAICTE 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 curriculum designed by affiliating university viz. Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. While revision and up-gradation of the syllabi is done at University level, the college has a mechanism for effective, documented curriculum delivery. At the commencement of each academic year, Director along with IQAC coordinator and Heads of all Departments conducts meeting to finalize the Institute Academic Calendar in alignment with that prescribed by the university. Based on this, Heads of each department conduct academic meeting to plan and organize the schedule of lectures and distribute the syllabus among faculty members of their departments based on their subject expertise/interests. Time table at departmental level for every semester is prepared by respective Heads of departments in consultation with faculty members. The faculty members are instructed by heads to complete the syllabus within stipulated time. Teaching plan and assignments for the semester are prepared by the respective subject in charge before start of 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 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 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, video lectures related to subjects from SWAYAM, e-PG-Pathshala, NPTEL, Vlabs and other sites are observed to explore thoroughly. Guest lectures are regularly arranged to bridge the gap in prescribed curriculum. Traditional classroom teaching is supplemented by regular tests, tutorials, group discussions, extensive lab work, projects, seminars, industry visits and summer training. We have a very rich central library with open access system and many departments have Departmental libraries for benefit of students. Some Journals are subscribed by our institute which help the students to explore in depth in the

concerned topics. 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 'weak' students to enable them to cope with the programme of their choice 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 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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
No Data Entered/Not Applicable !!!					

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
<a href="#">View File</a>		

#### 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	Programme Specialization	Date of implementation of CBCS/Elective Course System
MSc	Biophysics	15/06/2019
MSc	Biotechnology	15/06/2019
MSc	Botany	15/06/2019
MSc	Geology	15/06/2019
MSc	Microbiology	15/06/2019

#### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

### 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
Department of Geology organized 1st Pre-Ph.D. Course in Geology on behalf of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	18/01/2020	25
Personality Development	01/07/2019	85

(under Service Course)

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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MSc	Botany, Field explorations were organized as part of curriculum, students visited MahaExpo.	38
MSc	Botany, training programmes	3
MSc	Geology, Educational Geological Field study and Mapping Tour around Matanumadh, Dist Bhuj, Gujrat and around Abu-Road, Dist. Sirohi, Zawar mines, Dist. Udaipur, Rajasthan during 18.12.2019 to 02.01.2020, accompanied by Dr. Wanjarwadkar and Dr. Sonar	23
MSc	Geology, training programmes	3
MSc	Microbiology, Visit to sewage treatment plant, Nakshatrawadi, Paithan road, Aurangabad.	22
MSc	Microbiology, training programme	1
MSc	Biotechnology, Visit to Ajeet Seeds, Aurangabad on 02.01.2020.	38
MSc	Biotechnology, Visit to Paul Hebert DNA Barcoding Lab, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 12.02.2020.	20

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### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

#### Feedback Obtained

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) by online method. The students then fill up the questionnaire that has the following parameters 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. Link to the feedback forms is provided to the students, alumni and parents. The stakeholders fill up the feedback forms by online method and submit their response to IQAC. The performance statistics of the each faculty members is available through the response in the Google Form. 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	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MSc	Microbiology	20	168	24
MSc	Geology	20	35	23
MSc	Botany	20	72	22
MSc	Biophysics	20	29	20
MSc	Biotechnology	20	148	23
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### 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 fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	0	180	0	21	0



## 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 (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
21	21	4	10	0	3

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

All departments execute teaching-learning activity through lectures, tutorials, practical sessions, online/offline resources. Microbiology Department appointed mentors, Dr. Ajay Jadhav and Dr. J. J. Bukhtar (M.Sc.I), project guides (M.Sc.II) and Dr. S. A. Peshwe (Ph.D. students). Mentoring for Literature Search and visit to other departments was arranged in Central Library by Dr. A. V. Pethkar. Student work as mentors to deliver short presentations and explain important concepts in class. Students present research papers and faculty members explain research methodology and solve student queries. Dr. Pethkar mentored students for Summer Research Fellowships 2020. One successful student delivered seminar on Summer Research Fellowship Program-2020 under the aegis of IQAC. Dr. Pethkar mentored PG students for presentation in State Level Conference. Prof. U. K. Patil mentored students for training in renowned Institutions. Biophysics Department: Every academic session is suffixed with a QA 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: Teachers mentor students in diverse orientation for overall development. The enhancement of soft skills, career counseling, international and national fellowships and competitive examination guidance are prominent activities in mentoring. Students are encouraged to participate in workshops, conferences, debates etc. Focus is given on preparation of students for competitive exams and their placements. Some innovative teaching-learning processes adopted by Mrs. P. M. Sonawane are- Cross over teaching (educational trip), learning through flipped classroom (students develop concept from resources provided and deliver to the class), and teaching through collaboration (students work together on group assignments). Botany Department provides provides counseling, orientation and attention to academic needs of students since most students come from rural background. Teachers spare time on weekends to resolve queries of weak students and provide one-to-one mentoring for projects. Dr. A. N. Salve mentored students for paper presentation in conferences. Academic linkages of Dr. A. N. Salve proved beneficial to students for getting training in renowned institutions. Geology Department: appointed Dr. M.A. Sonar (M.Sc.I) and Dr. K.M. Wanjarwadkar (M.Sc. II) for personal attention to students, monitoring attendance, encouraging them to be attentive and regular in classes and evaluating students in internal tests. Slow learners are given individual counseling and mentoring to improve performance. Faculty members encourage students to collect supplementary reading materials from Central Library and the web for in-depth knowledge. Teachers impart on-field mentoring and prepare students for career development and competitive exam preparation. To nurture research environment, Dr. K.M. Wanjarwadkar encourages students to participate in conferences, seminars, workshops, trainings, National Science Day, etc. His academic ties with renowned institutions enabled student visits for training. Faculty Coordinator, Dr. A. N. Salve mentored students participating in Avishkar-19. Dr. A. G. Jadhav, Dr. A. V. Pethkar, Dr. K. M. Wanjarwadkar, Dr. R.P. Bhagat, Shri. S. G. Kulkarni and Mrs. V. N. Wadekar mentored students working under their guidance for Avishkar.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
180	21	1 : 9

## 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	21	13	0	13
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2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. A. N. Salve, National Level	Associate Professor	Invited to work as Session Chairman, National Conference on Emerging Transdisciplinary Approaches in Biosciences-2019 during 23-24 Dec. 2019 at Deogiri College, Aurangabad.
2019	Shri. S. G. Kulkarni, National Level	Associate Professor	Nominated as Member of INSA-IUPAB National Committee (Jan. 2016 to Dec. 2019).
2019	Dr. A. V. Pethkar, International Level	Associate Professor	IASR Excellence Award 2019, 29 July 2019, awarded by International Academy of Science and Research, Kolkata at Govind Bhai Shroff Auditorium, S.B.E.S. College of Science, Aurangabad.
2019	Dr. A. V. Pethkar, International Level	Associate Professor	Invited to work as Session Chairman, Day-3, 10th International Congress of Environmental Research, 19-21 December, 2019, organized by Journal of Environmental Research and Development, and Adi Shankara Institute of Engineering and Technology, Kalady,
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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	Date of declaration of results of semester-end/ year- end examination
MSc	Biophysics	1/1 and 3/2I	30/11/2019	04/01/2020
MSc	Biotechnology physics	1/1 and 3/2I	30/11/2019	12/01/2020
MSc	Botany	1/1 and 3/2I	30/11/2019	12/01/2020
MSc	Geology	1/1 and 3/2I	30/11/2019	19/12/2019
MSc	Microbiology	1/1 and 3/2I	30/11/2019	24/01/2020
MSc	Biophysics	2/1 and 4/2	05/11/2020	27/11/2020
MSc	Biotechnology	2/1 and 4/2	05/11/2020	27/08/2020
MSc	Botany	2/1 and 4/2	05/11/2020	20/11/2020
MSc	Geology	2/1 and 4/2	05/11/2020	20/11/2020
MSc	Microbiology	2/1 and 4/2	05/11/2020	07/12/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Midterm and End term internal examinations are conducted at the Institute level. Microbiology- Internal Examination by Online mode in addition to conventional offline mode. Use of Google classroom and Whatsapp for assignment completion and submission by students, Moodle cloud enabled continuous evaluation. Weightage is given for attendance in theory practical, participation and attendance in seminar presentation, internal tests, 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. However, due to COVID-19 Pandemic situation, it was difficult to follow the calendar from March 2020 during the National Lockdown. Hence for the internal evaluations, home assignments were given to the students and they were encouraged to submit the assignments by electronic and social media such as e-mail and Whatsapp.

## 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)

<http://www.inosca.org/igac/course-outcome-all-courses.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students	Number of students passed	Pass Percentage
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			appeared in the final year examination	in final year examination	
Nil	MSc	Microbiology	21	21	100
Nil	MSc	Geology	17	17	100
Nil	MSc	Botany	18	17	94.4
Nil	MSc	Biotechnol ogy	19	11	57.9
Nil	MSc	Biophysics	9	6	66.7
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## 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/igac/sss-2019-20.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 year
Major Projects	1095	Ministry of Earth Sciences, Gov. of India.	2198970	845250
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### 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
"Toxicologist- a gatekeeper redefining biomedical research" by Dr. Saurabh Vispute (Senior Scientist at Pfizer, Connecticut, USA)	IQAC and Microbiology Department	10/12/2019
Opportunities in Proteomics sector by Mr. Amit Fulzele, Posdt Doc Fellow, University of California, USA (online skype webinar)	Placement Cell and Biotechnology Department	05/09/2019
Entrepreneurship Development by Dr. Anand Yadav, Director, TechAnand Scientific Pvt. Ltd. Amravati	Placement Cell and Biotechnology Department	22/08/2019
Interview Skills for Research Lab by Mr.	Placement Cell and Biotechnology Department	20/04/2020

Ashish Bijewar, PhD Scholar, IISC Bangalore		
Current Research Trend in Genomics by Mr. Hanuman Kale, PhD CCMB Hyderabad	Placement Cell and Biotechnology Department	20/04/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
IASR Excellence Award 2019 at Govind Bhai Shroff Auditorium, S.B.E.S. College of Science, Aurangabad.	Dr. A. V. Pethkar (Associate Professor, Department of Microbiology)	International Academy of Science and Research (Kolkata) and Confederation of Indian Universities, N. Delhi.	29/07/2019	International
Selection for State level Avishkar-19 Competition, "Sunscreen metabolites from cyanobacteria, Selected for State Level Avishkar at Mumbai University, Mumbai	Mr. S. G. Kulkarni (Associate Professor Head, Department of Biophysics)	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.	28/01/2020	State Level
Appreciation award for successfully guiding research student for State Level Avishkar-19 Competition	Dr. A. N. Salve, (Associate Professor, Botany)	University of Mumbai, Mumbai.	28/01/2020	State Level
Young Scientist Award in National Conference on Emerging Transd isciplinary Approaches in B iosciences-2019 during 23-24 Dec. 2019.	Bagwan Rahim (Research Student), Department of Botany	Deogiri College, Aurangabad	24/12/2019	National Level
2nd Prize- Best Paper presentation in 2-Days National	Bagwan Rahim (Research Student), Department of	Deogiri College, Aurangabad	24/12/2019	National level

Conference on Emerging Transdisciplinary Approaches in Biosciences-2019 organized by Deogiri College, Aurangabad.	Botany			
Selection for State Level Avishkar-19 Competition, University Level Avishkar-19 Competition at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Mr. Shekh Samir (PG Student), Department of Botany	University of Mumbai, Mumbai.	28/01/2020	State Level
Selection for State Level Avishkar-19 Competition, University Level Avishkar-19 Competition at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Bagwan Rahim (Research Student), Department of Botany	University of Mumbai, Mumbai.	28/01/2020	State Level
1st Prize in Intercollegiate Science Quiz Competition	Ms. Preksha Marlecha, Mr. Sagar Biradar, Mr. Nilesh Mapari (PG Student), Department of Biotechnology.	BP Arts, SMA Science and KKC Commerce College, Chalisgaon	30/01/2020	State Level

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	NA	NA	Nil	NA	15/06/2019

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### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
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0	0	0
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### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Microbiology	5

### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Microbiology	11	2.36
International	Biotechnology	5	3.44
International	Geology	4	3.09
International	Botany	2	0
International	Biophysics	1	0
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### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Biotechnology	9
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### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Evolving nanotechnological trends in the management of mycotic keratitis	Rai, M., Gruppenmacher, A., Ingle, A.P., Paralikar, P., Gupta, I., Alves, M	IET Nano biotechnology	2019	0	Government Institute of Science, Aurangabad	0
Aquifer Characteristic in hard Rock Terrain of GP-8 Watershed, Aurangabad District, Maharashtra Using Vertical Electrical Sounding Method	M.A. Sonar, Tribhuvan P.R. and M.A.Malik,	Journal of Geosciences Research	2019	0	Government Institute of Science, Aurangabad	0

Bioprospecting actinomycetes for production of thermotolerant Phytasse.	Chaudhari S.P and S.A. Peshwe	International journal of scientific technology and research (2020),9(2):713-717, ISSN 2277-8616, UGC approved.	2020	0	Government Institute of Science, Aurangabad	0
Demonstration of pathogenicity in three different Magnaporthe oryzae isolates.	Kalpana Kulkarni and Swati Peshwe	International journal of Agriculture and Food Sciences (2020), 2(1)29-32, ISSN 2664-844X, UGC approved.	2020	0	Government Institute of Science, Aurangabad	0
Comparative study of growth and sporulation of Magnaporthe oryzae using different media formulations	Kalpana Kulkarni and Swati Peshwe	Int. J. of Scientific technology Research	2019	0	Government Institute of Science, Aurangabad	0
PCR detection of seed borne blast fungus Magnaporthe oryzae from Paddy seeds	Kalpana Kulkarni and Swati Peshwe	Research Journal of Agricultural Sciences, 11 (2), 430-433	2020	0	Government Institute of Science, Aurangabad	0
Computational analysis of Magnaporthe gene sequences for prediction of pathogenicity	Kalpana Kulkarni and Swati Peshwe	Research Journal of Agricultural Sciences, 11(2): 497-498	2020	0	Government Institute of Science, Aurangabad	0



	related genes						
	Understanding the association between the human gut, oral and skin microbiome and the Ayurvedic concept of prakriti.	Chaudhari, D., Dhotre, D., Agarwal, D., Gondhali, A., Nagarkar, A., Lad, V., Patil, Ulhas, Juvekar, S., Sinkar, V., Shouche, Y.	Journal of Biosciences	2019	3	Government Institute of Science, Aurangabad	0
	Gut, oral and skin microbiome of Indian patrilineal families reveal perceptible association with age.	Chaudhari, D. S., Dhotre, D. P., Agarwal, D. M., Gaike, A. H., Bhalerao, D., Jadhav, P., Mongad, D., Lubree, H., Sinkar, V. P., Patil, U. K., Salvi, S., Bavdekar, A., Juvekar, S. K., Shouche, Y. S.	Scientific Reports	2020	2	Government Institute of Science, Aurangabad	0
	Functional characterization and in vitro screening of Fructobacillus fructosus	Patil, M., Jadhav, A., Patil, U.	Letters in Applied Microbiology	2020	0	Government Institute of Science, Aurangabad	0

MCC 3996 isolated from Butea monosperma flower for probiotic potential.						
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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 Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Functional characterization and in vitro screening of Fructobacillus fructosus MCC 3996 isolated from Butea monosperma flower for probiotic potential.	Patil, M., Jadhav, A., Patil, U.	Letters in Applied Microbiology,	2020	29	0	Government Institute of Science, Aurangabad
Gut, oral and skin microbiome of Indian patrilineal families reveal perceptible association with age.	Chaudhari, D. S., Dhotre, D. P., Agarwal, D. M., Gaike, A. H., Bhalerao, D., Jadhav, P., Mongad, D., Lubree, H., Sinkar, V. P., Patil, U. K., Salvi, S., Bavdekar, A., Juvekar, S. K., Shouche, Y. S.	Scientific Reports	2020	178	0	Government Institute of Science, Aurangabad

Understa nding the associatio n between the human gut, oral and skin microbiome and the Ayurvedic concept of prakriti.	Chaudhari, D., Dhotre, D., Agarwal, D., Gondhali, A., Nagarkar, A., Lad, V., Patil, Ulhas, Juvekar, S., Sinkar, V., Shouche, Y.	Journal of Bioscie nces	2019	23	0	Government Institute of Science, Aurangabad
Computat ional analysis of Magnapo rthe gene sequences for prediction of pathoge nicity related genes	Kalpana Kulkarni and Swati Peshwe	Research Journal of Agricultur al Sciences, 11(2): 497-498	2020	9	0	Government Institute of Science, Aurangabad
PCR detection of seed borne blast fungus Mag naporthor yzae from Paddy seeds	Kalpana Kulkarni and Swati Peshwe	Research Journal of Agricultur al Sciences, 11 (2), 430-433	2020	9	0	Government Institute of Science, Aurangabad
Comparat ive study of growth and sporul ation of M agnaporth oryzae using different media form ulations	Kalpana Kulkarni and Swati Peshwe	Int. J. of Scientific technology Research	2019	0	0	Government Institute of Science, Aurangabad
Demonstr ation of p athogenici ty in	Kalpana Kulkarni and Swati Peshwe	Internat ional journal of Agricultur	2020	0	0	Government Institute of

three different Magnaporthae oryzae isolates.		e and Food Sciences (2020), 2(1)29-32, ISSN 2664-844X, UGC approved.				Science, Aurangabad
Bioprospecting actinomycetes for production of thermotolerant Phytasse.	Chaudhari S.P and S.A. Peshwe	International journal of scientific technology and research (2020),9(2):713-717, ISSN 2277-8616, UGC approved.	2020	0	0	Government Institute of Science, Aurangabad
Aquifer Characteristic in hard Rock Terrain of GP-8 Watershed, Aurangabad District, Maharashtra Using Vertical Electrical Sounding Method	M.A. Sonar, Tribhuvan P.R. and M.A.Malik	Journal of Geosciences Research	2019	0	0	Government Institute of Science, Aurangabad
Evolving nanotechnological trends in the management of mycotic keratitis	Rai, M., Gruppenmacher, A., Ingle, A.P., Paralikar, P., Gupta, I., Alves, M	IET Nano biotechnology	2019	23	0	Government Institute of Science, Aurangabad

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	0	0	1
Presented papers	9	5	1	0
Resource persons	2	3	1	4

**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 participated in such activities	Number of students participated in such activities
Biodiversity Field Study and interactive session on "Algae and their nutritive potential" by Dr. A. N. Salve, Associate Professor, Institute of Science, Aurangabad	NSS unit	1	50
Lecture on "A Modern Scientific View on Social Structure in India", by Dr. S. G. Narwade, Assistant Prof., Govt. Institute of Forensic Science, Aurangabad	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.	1	50
Interactive session on "Personality Development" by Prof. Satish Mokashi, Professor, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	NSS unit	1	50
Lecture on "Law and Justice- Current social scenario and the youth responsibility" by Shri. Rahul Bharti, Asst. Prof., Govt. Institute of Forensic Science, Aurangabad.	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.	1	50
Lecture on "Fundamental Rights of the people under the Indian Constitution" by	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.	2	50

Shri. Rahul Gawde, Asst. Prof., Govt. Institute of Forensic Science, Aurangabad.			
Digging out the canal to remove hinderances to the flow of water into the catchment site (lake) in the University campus	NSS unit in collaboration with NSS Department of the affiliating University.	1	50
Participation of NSS volunteer Mr. Pravin Prakash Sonune in State Level Residential Camp- Ek Bharat Shrestha Bharat at Shendurni, Jalgaon and Sakri, Dhule. Two NSS volunteers participated in the residential camps.	NSS unit in association with Kavayitri Nahinabai Chaudhari Northe Maharashtra University, Jalgaon and V. V. Mandal Sitaram Govind patil Arts, Science and Commerce College, Sakri, Dist. Dhule at Shri Kshetra Nagai- Kokle, Tal. Sakri.	1	1
Participation of NSS volunteer Mr. Navnath Vilas Honmane in State Level Residential Camp- Ek Bharat Shrestha Bharat at Shendurni, Jalgaon and Sakri, Dhule. Two NSS volunteers participated in the residential camps.	NSS unit in association with A. R. B. Garud Arts, Commerce and Science College, Shendurni, Tal. Jamner, Dist Jalgaon.	1	1
On-line program on Indroduction to the living and lifestyle of the people of Orissa State, cultural and natural heritage of the state and the places to visit in the state.	NSS unit under "Ek Bharat Shreshtha Bharat" initiative of the Government of India, in collaboration with NSS Department of the affiliating University.	1	50
Cleanliness campaign- cleaning of the Heritage Dug Well (Baarav) near Soneri Mahal in the affiliating University campus.	NSS unit in collaboration with the NSS Department of affiliating University	1	50

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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	Number of students Benefited
Nil	Nil	NA	0
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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 participated in such activities	Number of students participated in such activities
Ek Bharat Shreshtha Bharat initiative of the Government of India	NSS Department of the affiliating University.	On-line program on Indroduction to the living and lifestyle of the people of Orissa State, cultural and natural heritage of the state and the places to visit in the state.	1	50
Program on Awareness to Avoid Wastage of Food	NSS unit in collaboration with "Save Food Save Nation", an NGO from Aurangabad.	Interactive talk by Mr. Kulkarni	1	235
Participation of NSS volunteer Mr. Navnath Vilas Honmane in State Level Residential Camp- Ek Bharat Shrestha Bharat at Shendurni, Jalgaon and Sakri, Dhule.	NSS unit in association with A. R. B. Garud Arts, Commerce and Science College, Shendurni, Tal. Jamner, Dist Jalgaon.	State Level Residential Camp- Ek Bharat Shrestha Bharat	1	1
Participation of NSS volunteer Mr. Pravin Prakash Sonune in State Level Residential Camp- Ek Bharat Shrestha Bharat at Shendurni, Jalgaon and Sakri, Dhule.	NSS unit in association with Kavayitri Nahinabai Chaudhari Northe Maharashtra University, Jalgaon and V. V. Mandal Sitaram Govind patil Arts,	State Level Residential Camp- Ek Bharat Shrestha Bharat	1	1



Science and  
Commerce  
College, Sakri,  
Dist. Dhule at  
Shri Kshetra  
Nagai-Kokle,  
Tal. Sakri.

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### 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
Research	Prof. U. K. Patil and Dr. Yogesh Shouche, National Centre for Microbial Resource (NCMR) (National facility funded by the Department of Biotechnology), NCCS, Pune	Nil	365

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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	Duration To	Participant
Research consultancy	Gamma irradiation of seed samples	Ahmednagar College, Ahmednagar.	02/07/2019	02/07/2019	Mr. S. G. Kulkarni
Research consultancy	Gamma irradiation of seed samples	Maulana Azad College, Aurangabad.	15/07/2019	15/07/2019	Mr. S. G. Kulkarni
Research consultancy	Mutation breeding of sunflower	Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	19/12/2019	19/12/2019	Dr. A. N. Salve
Academic	Work as Session Chairman in National Conference	Deogiri College, Aurangabad.	23/12/2019	24/12/2019	Dr. A. N. Salve

	on Emerging Transdisciplinary Approaches in Bioscience.				
Research consultancy	Induction of mutation in <i>Vigna radiata</i>	New Arts, Commerce and Science College, Ahmednagar	12/06/2019	12/06/2019	Mr. S. G. Kulkarni
Research consultancy	Gamma irradiation of seed samples	New Arts, Commerce and Science College, Ahmednagar	29/07/2019	29/07/2019	Mr. S. G. Kulkarni
Summer training/ Laboratory Technician	Training in Diagnostics to Ms. Priyanka Wankhare (PG Student), Department of Microbiology.	Dr. Santosh Tathe (MD, Microbiology), Detect Diagnostics Advanced Pathology and Microbiology Lab, Aurangabad.	01/05/2019	31/07/2019	Prof. U. K. Patil
Summer Course on Natural Product Chemistry: Synthesis, Isolation and Application.	Training to Ms. Shruti Lavekar (PG Student), Dept. of Microbiology.	MACS-Agharkar Research Institute, Pune.	27/05/2019	31/05/2019	Prof. U. K. Patil
Training in Seaweed Cultivation and Processing Technology (SEA-CPT) under CSIR integrated skill initiative training program.	Training to Miss. Shital Jarare (PG Student), Dept. of Botany.	CSMCRI, Bhavnagar	18/12/2019	20/12/2019	Dr. A. N. Salve
Summer Training	Training to Ms. Tanvi Umakant Khandekar in "Geological	National Environment Engineering Research Institute,	15/05/2019	15/07/2019	Dr. K. M. Wanjarwadkar

and Geo-morphological study in and around Narkhed, Nagpur, District Maharashtra".	Nagpur, Maharashtra
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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/Activities	Number of students/teachers participated under MoUs
Nil	15/06/2019	NA	0
<a href="#">View File</a>			

## 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	Budget utilized for infrastructure development
2.87	2.87

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
<a href="#">View File</a>	

### 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 patially)	Version	Year of automation
SOUL	Partially	2.0	2012

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
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Text Books	2616	1875634	72	29225	2688	1904859
Reference Books	7342	2579249	84	86343	7426	2665592
e-Books	0	0	84086437	0	84086437	0
Journals	25	148703	14	0	39	148703
e-Journals	0	0	0	0	0	0
Digital Database	0	0	0	0	0	0
CD & Video	85	0	17	0	102	0
Library Automation	0	0	0	0	0	0
Weeding (hard & soft)	0	0	0	0	0	0
Others(s pecify)	0	0	0	0	0	0

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4.2.3 – 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
No Data Entered/Not Applicable !!!			
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwidt h (MBPS/ GBPS)	Others
Existin g	86	0	72	19	0	8	48	10	11
Added	0	0	0	0	0	0	0	0	0
Total	86	0	72	19	0	8	48	10	11

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

10 MBPS/ GBPS

##### 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
No Data Entered/Not Applicable !!!	

#### 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	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
4.65	4.65	15.89	15.89

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The Institute has three laboratory buildings, two hostel buildings, dug well for water supply, four class-IV quarters, two rector quarters, one Director's quarter, one administrative building. All these facilities are maintained by Public Works Department (PWD), Government of Maharashtra. The three laboratory buildings house ten PG and 5 research laboratories, ten classrooms, departmental libraries, five instrument rooms, three computer laboratories, which are maintained regularly by either Annual Maintenance Contract (AMC) or on Call Basis. Entries/record of all users of sophisticated instruments are made in Log Books. A Central Library operated through the Librarian caters books and journals to academia following standard library procedures.

<http://www.inosca.org/iqac/procedures-policies-2017-18.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	0	0
Financial Support from Other Sources			
a) National	GOI- SC, ST, OBC, Govt. Freeship	108	627084
b) International	Nil	0	0
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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 Interactive Demonstration and Lecture by Yoga Trainers, Ku. Rucha Jadhav and Ku. Jyoti Waghmare for mental and physical stability and proper body posture.	21/06/2020	100	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.
Lecture on "Water conservation practices and their	19/02/2020	50	NSS unit in collaboration with Govt. Institute of

importance" by Dr. K. M. Wanjarwadkar			Forensic Science, Aurangabad.
Lecture on "Nutritive value of edible algae" by Dr. A. N. Salve	18/02/2020	50	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.
Lecture on "Law and Justice- Current social scenario and the youth responsibility" by Shri. Rahul Bharti, Asst. Prof., Govt. Institute of Forensic Science, Aurangabad.	15/02/2020	50	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.
Interactive session on "Personality Development" by Prof. Satish Mokashi, Professor, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	16/02/2020	50	NSS unit in collaboration with NSS Department of the affiliating University.
Lecture on "A Modern Scientific View on Social Structure in India", by Dr. S. G. Narwade, Assistant Prof., Govt. Institute of Forensic Science, Aurangabad	17/02/2020	50	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.
Lecture on "Gandhian Thoughts" by Dr. Arun Wahul, Vivekanand College, Aurangabad.	19/02/2020	50	NSS unit in collaboration with NSS Department of the affiliating University.
Lecture on "Fundamental Rights of the people under the Indian Constitution" by Shri. Rahul Gawde, Asst. Prof., Govt. Institute of Forensic Science, Aurangabad.	14/02/2020	50	NSS unit in collaboration with Govt. Institute of Forensic Science, Aurangabad.
Interview Skills for Research Lab	20/04/2020	40	Mr. Ashish Bijewar, PhD

			Scholar, IISC Bangalore
Entrepreneurship Development	22/08/2019	40	Dr.Anand Yadav, Director, TechAnand Scientific Pvt.Ltd. Amravati
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Seminar on "Opportunities in Pharmaceutical Industries for Life Science Students" by Mr. Mr. Maitreya Mudkavi, Shodh AdvanTech LLP , Aurangabad	0	156	0	3
2019	Seminar on "Opportunities in Pharma Sector for life Science Students" by Mr. Rushikesh Deshpande, Asst. Manager, Eurolife Healthcare, Aurangabad	0	156	0	3
2019	Seminar on "Entrepreneurship Development" by Dr. Anand Yadav, Director, Tech Anand Scientific Pvt.Ltd. Amravati	0	42	0	3



2020	Seminar on "Interview Skills for Research Lab " by Mr. Ashish Bijewar, PhD Scholar, IISC Bangalore	0	42	0	3
2020	Seminar on "Current Research Trend in Genomics", by Mr. Hanuman Kale, PhD CCMB Hyderabad	0	42	0	0

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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	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Nil	0	0	Wokhardt Pvt. Ltd.,, Aurangabad Indigo Pharma, Aurangabad MJ Pharma, Pune	5	3

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	M.Sc. Microbiology	Department of Microbiology	MACS-Agharkar Research Institute, Pune.	Junior Research Fellow under the DBT Sponsored

					Project (SP-300), Production, nano-delivery and validation of viral vaccine against nodavirus of fish.
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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	Number of students selected/ qualifying
NET	1
SET	1
GATE	2
Any Other	1

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Annual Sports	Institute Level	192
Annual Gathering Cultural Events	Institute Level	100
Department of Biotechnology celebrated "Biotechnology Day" on 14th November, 2019 by organizing Speech Competition and Essay Competition for the students.	Institute Level	10
Department of Biotechnology organized Speech Competition on Biotechnology Day under the aegis of the Biotechnology Students' Council on 14.11.2019.	Institute Level	8
Department of Biotechnology organized a debate competition on "Whether Life should be made Immortal or Not?" under the aegis of the Biotechnology Students' Council on 01.10.2019.	Institute Level	24
Department of Biotechnology organized a	Institute Level	24

Poster Competition on the topic "Immunology" under the aegis of the Biotechnology Students' Council on 16.10.2019.		
MicroCosm-Student Club of the Department of Microbiology celebrated 197th Birth Anniversary of Sir Louis Pasteur on 27.12.2020 by organizing an Intercollegiate Research Paper Presentation Competition.	Intercollegiate Level	13
Department of Microbiology organized online National Level Microbiological Contest on 25.01.2020.	National Level	2227
Department of Microbiology organized 19th National Level MicrobioCanvas competition on 25.01.2020.	National Level	110
Department of Microbiology organized 19th National Level Microbiolympiad Competition on 14.02.2020 with overwhelming success	National Level	90
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### 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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Debate toppers	National	Nil	1	Nil	Ms. Sharma Jagruti Pandurang, Ms. Rutuja Patil, Mr. Nishan Padole, Ms. Shruti Mahajan.
2019	Participation	National	Nil	Nil	Nil	Mr. Ajinkya Vijayrao Deshmukh, Ms.

						Jagruti Pandurang Sharma
2020	Participation	National	Nil	Nil	MBL19-20 /1008	Ms. Nikita Shinde
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institute has alumni association named as "ALUMNI OF INSTITUTE OF SCIENCE" It is registered under ????? ?????????? ?????????????????? ??????? (?? ???? ?? ????? ???????,??) 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. • 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. The membership drive and appeal for alumni contribution are being executed presently. 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, "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" to march towards mission as follows - "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" Strategy for execution of activities under STEP-IN ? 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 Several lecture series, interaction meetings and campus interviews were organized under this banner.

5.4.2 – No. of enrolled Alumni:

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

- 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)

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.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 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):

Strategy Type	Details
Admission of Students	<p>As per the instructions from affiliating university the institute conducted PG CET examination for admission of students in the institute. The central admission committee monitored and Department Admission committees execute the admission process as per regulations of the State Government and affiliating university to ensure transparency in admission process.</p>
Industry Interaction / Collaboration	<p>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.</p>
Human Resource Management	<p>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</p>

placements and promotions. The teaching and nonteaching staff of institute is entitled to avail annual increments, leaves and other permissible benefits.

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 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.

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.

#### Examination and Evaluation

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.

#### 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.

#### 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.

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

E-governance area	Details
Planning and Development	The institute maintains the website <a href="http://www.inosca.org">www.inosca.org</a> . 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 PG CET 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 PG CET.
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
2020	Nil	Nil	Nil	Nil
<a href="#">View File</a>				

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	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Nil	Nil	Nil	Nil	Nil	Nil
No file uploaded.						

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	Number of teachers who attended	From Date	To date	Duration
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development programme				
STC in Yoga and Wellness organized by UGC, under HRDC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	1	08/07/2019	13/07/2019	6
Online (MOOC, NPTEL) FDP on 'Biochemistry', coordinated by IIT, Kharagapur	1	27/01/2020	27/04/2020	91
Online (MOOC, (ARPIT)) inter-disciplinary 'Refresher Course on Teacher and Teaching in Higher Education'	1	01/09/2019	31/12/2019	122
STTP on "New Dimensions in Research Breaking: New Grounds", HRDC, Dr. H.S. Gaur University, Sagar, M.P.	1	10/02/2020	15/02/2020	6
STTP Course on "History of life and Mass Extinction Events GIAN, HRDC, Govt. of India, Academic staff college, Sant Gadge Baba University, Amravati.	1	14/10/2019	18/10/2019	5
Refresher course in Life Sciences held at HRDC Sant Gadge Baba Amravati University Amravati.	1	07/01/2020	20/01/2020	14
One Week Online Faculty	2	07/05/2020	12/05/2020	6

Development Programme on Moodle : Learning Management System				
SWAYAM ARPIT ONLINE COURSE CERTIFICATION-Skills For New Educational Architecture	3	01/09/2019	15/01/2020	137
Managing Online Class and Co-creating MOOCs	3	20/04/2020	06/05/2020	17
"46th Orientation Programme" held at HRDC, S. G. B. Amravati University, Amravati.	1	10/09/2019	01/10/2019	22
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#### 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
21	21	17	17

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Co-operative society, housing loans, vehicle loans, computer loans, medical reimbursement facility	Co-operative society, residential quarters, medical reimbursement facility.	Scholarships, 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/ Grnats received in Rs.	Purpose
Nil	0	0
<a href="#">View File</a>		

#### 6.4.3 – Total corpus fund generated

## 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	Affiliating University Affiliation	Yes	Audit Committee
Administrative	No	None	Yes	Audit Committee

### 6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

- 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)

- 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)

Academic flexibility- CBCS introduced since 2015-16. Feedback system- Feedback collected, analyzed and recommendations given to respective departments for improvements in teaching-learning. Feedback collected by designated personnel to maintain transparency. To gauge satisfaction level of students regarding teaching-learning experience, Student Satisfaction Survey is conducted.

Catering to student diversity- Freshers are offered induction program through Departmental counseling. Library orientation at the start of academic year allows students to get acquainted with facilities and resources in Central Library. Visit of students to other Departments is arranged to inform them of laboratory facilities and expertise available and provide opportunity to interact with faculty. The students derived advantage from this activity for PG research projects. Student performance and learning outcomes- Necessary initiatives for Academic audit has commenced as per directives of affiliating University. Research mobilization- Faculty members submitted collaborative proposals to government funding agencies. Students are mentored to submit applications for Summer Research Programmes. Research facilities- Laboratory utilities and equipment procured through DPDC funding. Sophisticated instrumentation as a central facility is being maintained in allied departments. Funding received from RUSA for infrastructure, equipment, consumables and chemicals. Research publications and awards- Students participated and presented research work in conferences and competitions. One Indian patent is granted to a faculty. Another patent with complete specifications is filed, Faculty members and students received awards and honours for innovations. Consultancy- faculty members provide consultancy in ground water exploration, water analysis, forensic investigations, gamma

irradiation, mutagenesis experiments and studies on nanomaterials. Collaboration/linkages- Students get the opportunity to work with experts and get field-experience/training through academic linkages. IT infrastructure- Wi-Fi facility is augmented in order to provide better internet connectivity to staff and students. The proposal for 5 smart classrooms establishment has been routed to RUSA. Student progression- A total of 08 students qualified National level competitive exams. Due to the COVID-19 pandemic, few (03) students got placements through the Placement Cell. Student participation and activities- Students participated in annual cultural programme and sports. Students participated in co-curricular, extra-curricular activities and Avishkar. Environment consciousness- Students carry out biodiversity analysis in campus. The green coverage in campus is enhanced through activities of NSS. Vacant teaching posts- Vacant posts of Assistant Professor in Botany Department are filled. Competitive exam coaching- Free seminar organized. Faculty guide regularly for competitive exam preparation.

#### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	No

#### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Regular meeting of Internal Quality Assurance Cell (IQAC),	06/08/2019	06/08/2019	06/08/2019	12
2020	Regular meeting of Internal Quality Assurance Cell (IQAC),	14/01/2020	14/01/2020	14/01/2020	10
2019	Seminar and Interactive Session on " Toxicologist - a gatekeeper redefining biomedical research" by Dr. Saurabh Vispute (Senior Scientist at Pfizer, Connecticut, USA), jointly	10/12/2019	10/12/2019	10/12/2019	218

	organized by IQAC and Microcosm-Student Club of Microbiology.				
2019	Interactive session by Mr. Jameel Hussain (SRF-2019 awardee) on Summer Research Fellowship Program-2020 organized by IQAC and Microcosm-Student Club of Microbiology.	29/11/2019	29/11/2019	29/11/2019	218
2020	To motivate students and honour them for the performance in final year PG examination (Botany) by awarding Prin. S. P. Nanir Gold Medal under the aegis of Alumni of Dept. of Botany.	03/02/2020	03/02/2020	03/02/2020	218
2020	Academic Administrative Audit (AAA) conducted	26/02/2020	26/02/2020	29/02/2020	21
2019	Biotechnology Day Program	14/11/2019	14/11/2019	14/11/2019	8
2019	Debate Competition	01/10/2019	01/10/2019	01/10/2019	24
2019	Poster competition on Immunology	16/10/2019	16/10/2019	16/10/2019	300

2020	197th Birth Anniversary of Sir Louis Pasteur (Int ercollegiate Research Paper Presen tation)- 27.12.2020,	27/12/2020	27/12/2020	27/12/2020	13
<a href="#">View File</a>					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 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	Period To	Number of Participants	
			Female	Male
No Data Entered/Not Applicable !!!				

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<ul style="list-style-type: none"> <li>• The sensitivity of students towards environment and society was enhanced using various platforms. NSS unit organized unique extension activities for benefit of local residents.</li> <li>• The practice of tree plantation was continued to enhance Green-coverage of the Institute campus. NSS volunteers and Department of Botany planted trees within and outside campus. Department of Botany provided tree saplings to students for plantation in their residential areas.</li> <li>• NSS volunteers cleaned dug wells in Soneri Mahal area (a heritage site in University campus) to remove pollutants and to increase water level. Non-biodegradable pollutants and recalcitrant material, including plastic waste, polymers, silt, sludge, etc. was removed from the wells.</li> <li>• Water canals in the University campus were cleaned to remove the hindrances to the water flow into the catchment site (lake). This resulted in beautification of campus environment and water conservation. Dr. K. M. Wanjarwadkar (Department of Geology) delivered talk on Water Conservation Practices emphasizing simple and low-cost methods for local needs.</li> <li>• Considering the availability of local resources such as environment, land, water, manpower and raw material, the possibility of self-employment and income generation from environment-friendly activities such as growth of algae for food, feed and medicinal value was presented by Dr. A. N. Salve (Department of Botany).</li> <li>• A special program was organized for spreading awareness about avoiding wastage of food and conducted by "Save Food Save Nation", an NGO from Aurangabad.</li> <li>• A glimpse of the environment and natural heritage of Orissa State, the livelihood, lifestyle and culture of people living in Orissa was provided to local residents and NSS volunteers under "Ek Bharat Shreshtha Bharat" initiative of Govt. of India. Documentaries, movies and clips were presented.</li> <li>• Awareness campaigns on prevention of COVID-19 were carried out by IQAC, departments of Microbiology, Botany and biotechnology.</li> <li>• Fluorescent tube lights are being replaced by LED lights in laboratory buildings.</li> <li>• Solar power is used in Hostels for water heating and in Biophysics Department for water distillation.</li> <li>• Each department ensures proper disposal of potentially hazardous material/waste generated in laboratories.</li> <li>• Electronic instruments and computers are used with care to prevent break down and minimize e-waste generation.</li> <li>• Faculty members of Botany</li> </ul>



Department assign the task of numbering trees to the students as a part of practical/project work. The department planted rare and endangered medicinal plants in the campus. The Institute is rich in floristic diversity representing a total of 55 families of angiosperms. A total of 218 species are recorded from the Institute campus. Trees and climbers are perennial and contribute to greenery of the campus. Growth of certain plants in the vicinity of Institute campus indicates that the environment is free from pollution.

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	No	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	No	0
Scribes for examination	No	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nil	18/01/2020	58	Pre-Ph.D. Course in Geology	Due to close proximity to the affiliating university and Recognized Center for PG and Research, the Institute organized Pre-Ph.D. course in Geology for all students registered for	25

						Ph.D. (Geology) of the af filiating Universit y.	
2019	1	Nill	15/06/2 019	90	Selection of the Service Course	Due to proximity to affili ating Univ., the PG students can opt for various subjects of their own interest under the mandatory Service Course available within the Unive rsity Campus, viz. Positive psycholog y, Plant tissue culture, Archaeolo gy, etc.	89
2020	1	Nill	15/06/2 019	5	Attenda nce at Ph D. vivo voce	Exposure to PG and research students of the institute to academic deliberat ions of Ph.D. viva voce examinati ons- Due to close proximity to the af filiating universit	45

						y the students and staff of the institute could attend Ph.D. vivo voce examination	
2020	1	Nill	15/06/2019	180	Establishing Gamma Irradiation Facility	Institute being State Government organization could establish the Unique Gamma Irradiation facility outside BARC in the renowned Biophysics. Scientific community, viz. academic researchers and professionals from industries were benefitted.	Nill
2020	Nill	1	15/06/2019	180	Site for Gamma radiation facility	Institute campus spreading about 27 acres situated relatively isolated from the city, the unique facility of Gamma Irradiati	Nill

						on could be installed and operated keeping in view the safety of general public.	
2020	1	Nill	15/06/2019	180	Experiential Learning-study of rocks and tunnels.	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. This is integral part of PG syllabus.	40
2020	1	Nill	15/06/2019	180	Experiential Learning-study of subsurface geology	Due to proximity to affiliating University students could compare dugwells in Institute and Univ. campus and compare subsurface geology	40

						and study aquifers.	
2020	1	Nill	15/06/2019	180	Experiential Learning-study of rocks.	Understanding the various features and flows of basaltic rocks such as red bole beds, ropy lava, vesicular structures, amygdules, pipe structure, spheroidal structures, etc. was possible due to proximity, students can visit the site frequently.	40
2020	1	Nill	15/06/2019	180	Experiential Learning-study of subsurface geology	Due to proximity to hilly terian, it gives an opportunity to study the various joint patterns and their effects on ground water and hydrogeological conditions from landslide point of view.	40
2020	1	Nill	17/01/2020	1	Social Rally for	Traffic Safety	100

					Traffic safety	and Discipline-Institute being situated in the zone inhabited by large population of common people
<a href="#">View File</a>						

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Institute Website	15/06/2019	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: <a href="http://www.inosca.org">www.inosca.org</a>

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Maharana Pratap Jayanti	16/06/2019	16/06/2019	235
Rajarshi Shahu Maharaj Jayanti	26/06/2019	26/06/2019	235
Vasantrao Naik Jayanti	01/07/2019	01/07/2019	235
Lokmanya Balgangadhar Tilak Jayanti	23/07/2019	23/07/2019	235
Sahityaratna Annabhau Sathe Jayanti	01/08/2019	01/08/2019	235
Krantisinha Nana Patil Jayanti	03/08/2019	03/08/2019	235
Sadbhavana Diwas	20/08/2019	20/08/2019	235
Raje Umaji Naik Jayanti	07/09/2019	07/09/2019	235
Pandit Dindayal Upadhaya Jayanti	25/09/2019	25/09/2019	235
Mahatma Gandhi Lal Bahadur Shastri Jayanti	02/10/2019	02/10/2019	235

### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- **Cleanliness campaign:** NSS volunteers clean the campus and remove parthenium grass, spread awareness on clean, green and safe environment and need to conserve biodiversity, energy and environment. Cleaning of dug wells near Soneri Mahal to remove pollutants. Special program was organized for awareness about avoiding wastage of food under aegis of "Save Food Save Nation".
- **Awareness campaigns:** Rallies are conducted to spread awareness about health and environment. A glimpse of the environment of Orissa State, livelihood and lifestyle of people and its cultural and natural heritage was provided to NSS volunteers under "Ek Bharat Shreshtha Bharat" initiative of Govt. of India.
- **Energy conservation:** The Institute has adopted several practices, viz. minimizing use of energy intensive devices, use of power saving devices, solar equipment and pooling work elements that are energy intensive. The Institute uses power saving CFL bulbs for illumination, LED computer monitors and energy saving air conditioners/refrigerators. The fans and lights are put on only when required. In Dept. of Microbiology, autoclaves, ovens, hot plates, etc. are put on by authorized personnel or students only after all material is pooled and repetitious use of instruments is avoided.
- **Use of renewable energy:** 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 students.
- **Water Conservation Activities:** Cleaning of dug wells in Soneri Mahal area (a heritage site in University campus) was aimed at increasing the water level. Water canals in the University campus were cleaned to remove hindrances to water flow in the catchment site (lake). Dr. K. M. Wanjarwadkar (Department of Geology) delivered a talk on Water Conservation Practices.
- **Efforts for Carbon neutrality:** The Institute makes minimal use of paper and green-house gas emitting devices. The Institute encourages new tree plantation within the campus and also in the surrounding areas.
- **Tree Plantation:** to enhance Green-coverage of the campus, NSS volunteers and Department of Botany planted trees in campus. Department of Botany provided tree saplings to students for plantation. Students number the trees as a part of practical/project work and plant rare and endangered medicinal plants in Botanical Garden.
- **Hazardous waste management:** Each department ensures proper disposal of potentially hazardous material/waste generated in laboratories. Waste microbial cultures are autoclaved before 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.
- **Biowaste management:** To reduce bio-waste generation, books are gifted/awarded to guests/students/staff.
- **Eco-friendly income generation-** talk by Dr. A. N. Salve on algal cultivation for nutrient and medicinal value.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

1. **Experiential Training and Mentoring** for overall development of the students.
  2. **Nurturing value-based education, social responsibilities and good citizenry.**
- Details of the Best Practices are available in the uploaded document with link provided below.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.inosca.org/igac/best-practices-2019-20.pdf>

## 7.3 – Institutional Distinctiveness

### 7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

1 Institute stands out in its distinctive endeavour for blending teaching-learning with experiential mentoring and research. 2 The institute was established in 1974 to cater the higher education needs of the Marathwada region and is the only State Government administered PG Higher education institute in this region of Maharashtra. 3 The departments established in this institute are pioneering postgraduate departments in the concerned subject and two departments viz. Biophysics and Geology are the only PG depts. in the jurisdiction of affiliating university in the subjects concerned.. 4 Each of the five departments in the institute is recognized by the affiliating university for research. The faculty members are recruited by state Government through MPSC and have wide teaching and research/professional experience. 5 The institute departments are excellent centres of academic and research guidance with qualified, experienced and skilled professional faculty. The faculty members share their expertise to offer consultancy services in the areas of Ground water survey and analysis, forensic investigation, Gamma irradiation for genetic improvement of crops, material studies and nano-material characterization. 6 A number of faculty member from all departments contribute to curriculum development and other academic initiatives of the affiliating university by serving as members of BOS, Examination, affiliation committees. 7 In addition to academics, the faculty members being state Government Gazetted Class1 officers shoulder various responsibilities in the State and Central administration viz. UPSC,MPSC,MH-CET,LAW-CET, B.Ed-CET examinations, General Elections, College Inspections, Govt Inquiry Committes, CAS committees etc. 8 The institute provide an environment that motivates students to actively participate in conferences, seminars, research competitions, summer training programmes, and competitive examinations. This venture has reflected in the success of students in various curricular and co-curricular activities and competitive examinations such as NET, SET,GATE, ICMR,AVISHKAR etc.. 9 Besides academic excellence, students are encouraged to strive for an appreciation of arts and aesthetics, intellectual excellence and creativity in programs such as sports, Annual Social Gathering, NSS etc. 10 The institute is located in scenic campus in north-west corner of the city adjoining the hills preserving ancient Aurangabad caves, Hanuman tekdi and Historical Bibi-ka-Maqbera. Due to the serene and pollution free environment the students feel empowered and healthy in their day-to-day routine. 11 The institute houses number of sophisticated instruments, unique collection of geological and botanical specimens, Biomedical instruments which are freely accessed by Pg and research students enriching their practical aptitude. 12 The Central library of the institute is unique in its own respect. It has wide collections of rare reference books and volumes, periodicals such as Annual Reviews, Nature, Science, JBC, Biological Abstracts, Current Contents, Scientific and industrial abstracts, Methods in Enzymology, Journals and magazines although many of these discontinued due to budgetary constraints. There is special section for Books Donated by Internationally Acclaimed Indian Scientists.

Provide the weblink of the institution

<http://www.inosca.org/igac/institutional-distinctiveness.pdf>

## 8.Future Plans of Actions for Next Academic Year

- Submission of pending AQARs before due date.
- Motivating faculty members to prepare on-line, video lectures on MOOC, LMS and other platforms in view of new trends in Higher Education
- Motivating faculty members to attend online workshops, webinars and conferences for updated knowledge and changing trends in education against the COVID-19 background.
- Encouraging faculty members to organize webinars on current topics in respective fields of science during the National lockdown period.
- Preparation of one full-fledged virtual/smart classroom in each department.
- Organizing webinar/workshop on Intellectual



Property Rights and Patenting. • Organizing programmes on Gender Equity. • Mentoring PG students for submission of research proposals for Summer Research Fellowships 2021. • Encouraging faculty members to participate in framing and revision of PG syllabus. • Encouraging faculty members to participate in Faculty Development Programmes for enhancing knowledge and career progression. • Encouraging staff members to submit collaborative research projects to funding agencies, pursue research work, and publish papers in peer reviewed/refereed/UGC-listed/scopus-indexed/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. • Encouraging Placement Cell to organize workshops on Preparation for Competitive Exams, on-campus/off-campus placement activities and career guidance programmes. • Encouraging NSS unit to carry out unique activities for developing sensitivity in the students towards society, environment and the Nation and for upliftment of society through various awareness programmes. • Motivating students to participate in Avishkar-2020 Research Competition, poster competitions, oral presentations, and other co- and extra-curricular activities. • Encouraging the 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 workshops, lecture series, invited talks of professionals/experts from industry and academia and to 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 scientific communication skills of 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 teaching-learning process. • Mobilizing students' to organize science activities through student clubs in various departments. • Encouraging student participate in cultural activities and sports organized by the Institute and other institutes.