YEARLY STATUS REPORT - 2020-2021

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 its own campus?	Yes
• Phone no./Alternate phone no.	02402400586
• Mobile no	9404012456
• Registered e-mail	director@inosca.org
• Alternate e-mail	iqacgis@gmail.com
• Address	Nipatniranjan Nagar, Caves Road
• City/Town	Aurangabad
• State/UT	Maharashtra
• Pin Code	431004
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Urban
• Financial Status	Grants-in aid

• Name of the Affiliating University	**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**
• Name of the IQAC Coordinator	**Dr. Aniroodha V. Pethkar**
• Phone No.	**09833494261**
• Alternate phone No.	**02402400598**
• Mobile	**09833494261**
• IQAC e-mail address	**iqacgis@gmail.com**
• Alternate Email address	**avpethkar@yahoo.com**
3.Website address (Web link of the AQAR (Previous Academic Year)	http://www.inosca.org/iqac/aqar-2019-20.pdf
4.Whether Academic Calendar prepared during the year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.inosca.org/iqac/academic-calender-2020-21.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B++**	**85**	**2004**	**16/09/2004**	**15/09/2009**
Cycle 2	**B**	**2.74**	**2016**	**29/03/2016**	**28/03/2021**

6.Date of Establishment of IQAC	**15/01/2005**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institutional	Total Funds	State Government	2020-21	7,51,54,000
Institutional	Salary	State Government	2020-21	6,87,00,000
Institutional	Academic facilities	State Government	2020-21	Nil
Institutional	Physical facilities	State Government	2020-21	Nil
Institutional	Miscellaneous	State Government	2020-21	4,50,000
Institutional	RUSA	Central Government	2020-21	1,00,00,000
Institutional	DPDC	State Government	2020-21	3,03,000
Institutional	NSS	Affiliating University	2020-21	20,400

8.Whether composition of IQAC as per latest NAAC guidelines	Yes	
• Upload latest notification of formation of IQAC	View File	
9.No. of IQAC meetings held during the year	02	
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	

• If yes, mention the amount	

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

1. Faculty members were encouraged to organize online lectures and webinars inviting experts and professionals. The students and other participants were benefited from these activities. 2. Faculty members were encouraged to publish research papers, prepare collaborative research proposals and present their research to the scientific community. The faculty members published papers and interacted with the scientific community. 3. One Virtual Classroom was set up in each of the five Departments through the funds received from RUSA. 4. Faculty members were encouraged to provide competitive examination guidance to students. Students qualified the National and State Level competitive exams. 5. Students got placements in public and private sector through the involvement of Placement Cell as well as guidance from the faculty members. 6. Plant saplings of wild species were planted in the campus for increasing the green cover.

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

Plan of Action	Achievements/Outcomes
Submission of pending AQARs before the due date	All pending AQARs were submitted to NAAC office, Bangaluru before the due date
Motivating the faculty members for preparation of on-line video lectures on MOOC, LMS and other platforms in view of new trends in Higher Education	Faculty members geared up for the on-line mode of teaching during COVID-19 pandemic
Motivating the faculty members to attend online workshops, webinars and conferences for getting updated knowledge of concerned subjects and changing trends in education against the COVID-19 background/situation	The faculty members attended on-line training courses and workshops
Encouraging faculty members to organize webinars on current topics in respective fields of science during the National lockdown period	The faculty members organized on-line guest lectures for benefit of the students

Preparation of one full-fledged virtual/smart classroom in each department	Each Department of the Institute is equipped with one smart classroom in order to make the teaching-learning experience more effective and interactive
Organizing webinar/workshop on Intellectual Property Rights and Patenting	Lecture on IPR awareness was planned, but could not be arranged
Organizing programmes on Gender Equity	Guest lecture addressing gender issues was arranged on Women's Day,
Mentoring the PG students for submission of research proposals for Summer Research Fellowships 2021 (SRF-2021) under National Academies of Science	The summer research programmes were not organized due to COVID-19,
Encouraging faculty members to participate in the framing and revision of syllabus as a part of various committees in the University	Faculty members participated in on-line BOS meetings.
Encouraging the faculty members to participate in Faculty Development Programmes for enhancing the knowledge horizons and career progression	Faculty members participated actively in FDPs
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	Faculty members focused on research work by way of submitting manuscripts for publication in UGC-approved journals or books, submitting research proposals for funding
Encouraging faculty members to participate in and organize conferences	Conference could not be organized due to COVID-19
Advising all Departments to submit uniform time-table of lectures considering slot for	All the department heads and faculty members monitored student attendance and ensured a

service course lectures and to take measures to ensure 100% student attendance for theory and practical sessions	good attendance for on-line classes, although at times students could not attend due to network connectivity issues,
Urging faculty members to organize workshops on Preparation for Competitive Exams and encouraging the Placement cell to organize on-campus and off-campus placement activities and career guidance programmes	Placement cell organized programs on career guidance, competitive examination guidance and placement activities
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	NSS unit organized various extension activities with involvement of few students and the staff members
Motivating the students to participate in Avishkar-2020 Research Competition, poster competitions, oral presentations, and other co- and extra-curricular activities	The Avishkar-2020 competition was not organized due to Covid-19.
Encouraging the faculty members to organize lectures of eminent scientists to provide students with a glimpse of current trends in scientific research	Faculty members organized on-line guest lectures.
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	Students participated in on-line guest lectures
Developing academic linkages with other institutions for	Collaborative academic activities could not be carried

providing opportunity to the students to undertake summer/winter training programmes, on-field trainings and experiential learning	out due to the lockdown.
Encouraging students to visit different departments and interact with faculty members to get information about other subjects and expertise of other departments	Inter-department visits could not be arranged due to COVID-19
Library Orientation aimed at introducing the rich knowledge resources available in the Central Library .	Library Orientation could not be arranged for students due to COVID-19
Motivating faculty members to arrange programmes aimed at nurturing and enhancing the scientific communication skills of the students	Faculty members mentored students for effective communication skills
Arranging and execution of study tour for keeping abreast with recent trends across fields related to subject	Study tour could not be arranged due to COVID-19
Active promotion of student participation in seminars, presentations, extracurricular activities, summer training, national/international symposia, conferences and workshops	Students participated in the on-line assignments
Collection of feedback from students for improving teaching-learning process	Feedback was collected from students and analyzed
Mobilizing students to organize science related activities	Activities of the students' clubs could not be organized due to COVID-19 pandemic
13.Whether the AQAR was placed before statutory body?	**Yes**
Name of the statutory body	

Name	Date of meeting(s)
Staff council	30/10/2021

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2018-19	02/08/2019

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):

17.Skill development:

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

20.Distance education/online education:

Extended Profile

1.Programme

1.1   10

Number of courses offered by the institution across all programs
during the year

File Description	Documents
Data Template	[View File](#)

2.Student

2.1   210

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2   **100**

Number of seats earmarked for reserved category as per GOI/ State
Govt. rule during the year

File Description	Documents
Data Template	View File

2.3   **101**

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1   **21**

Number of full time teachers during the year

File Description	Documents
Data Template	No File Uploaded

3.2   **35**

Number of sanctioned posts during the year

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	10

File Description	Documents
Data Template	[View File](#)

2.Student

2.1 Number of students during the year	210

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	100

File Description	Documents
Data Template	[View File](#)

2.3 Number of outgoing/ final year students during the year	101

File Description	Documents
Data Template	[View File](#)

3.Academic

3.1 Number of full time teachers during the year	21

File Description	Documents
Data Template	No File Uploaded

3.2 Number of sanctioned posts during the year	35

File Description	Documents
Data Template	View File

4.Institution

4.1 Total number of Classrooms and Seminar halls	11
4.2 Total expenditure excluding salary during the year (INR in lakhs)	33,28,590
4.3 Total number of computers on campus for academic purposes	91

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

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.

File Description	Documents
Upload relevant supporting document	[View File]
Link for Additional information	https://docs.google.com/document/d/17xVU-bJxvz8CxVCBShq8VVIwE3aXzUbU/edit?usp=sharing&ouid=113541184988888041080&rtpof=true&sd=true

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The academic calender was prepared as per the University Calender and all academic, co-curricular and extra-curricular as well as extension activities were conducted by adhering to the academic calender during the entire academic year. The internal examination in the form of tests/assignments/tutorials/seminars are conducted as per the academic calender of the Institute. However, due to COVID-19 Pandemic situation, it was difficult to follow the calender 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.

File Description	Documents
Upload relevant supporting document	[View File]
Link for Additional information	https://docs.google.com/document/d/1SiUOI7zNGPUkuDrUM1m16tXaygP0SMA-/edit?usp=sharing&ouid=113541184988888041080&rtpof=true&sd=true

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University	B. Any 3 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

05

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

0

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

0

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

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. To inculcate human values among the students, the Institute celebrates the birth anniversaries of great heroes, social workers and popular personalities of India. In such programmes, the faculty members tell the students about the values and efforts of the great perosonalities for building our nation.

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. 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 to enhance Green-coverage of the campus. The NSS volunteers and Department of Botany planted trees in campus. Every year NSS volunteers cleans the campus and remove parthenium grass, spread awareness on clean, green and safe environment and need to conserve biodiversity, energy and environment. But due to pandemic condition this year we were unable to involve students for the cause.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

`05`

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	View File
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

`84`

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	`D. Any 1 of the above`

File Description	Documents
URL for stakeholder feedback report	https://drive.google.com/drive/folders/149VCxXxFUYY8t1wEe8pcIjw73neEY9Xd?usp=sharing
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows	A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://drive.google.com/drive/folders/149VCxXxFUYY8t1wEe8pcIjw73neEY9Xd?usp=sharing

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

210

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

131

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

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 of successful students. 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.

File Description	Documents
Paste link for additional information	[NIL](#)
Upload any additional information	[View File](#)

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
210	20

File Description	Documents
Any additional information	[View File](#)

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

IQAC has made the teaching and learning process student centric and transformed the student community into lifelong learners by way of adopting various mechanisms for effective teaching-learning. Some of the student-centric approaches used are: 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 organize study tours, field visits and industrial visits and also send students to research laboratories/industries under collaborative linkages for summer/vacatioanl training. Faculty members encourage students to present scienctific data in conferences and various competitions such as Avishkar research competition, paper presentation competitions, quiz competitions, debates, etc. . But due to prevailing pandemic situation, this year we have not organised study tours, field and industrial visits.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional information	[NIL](#)

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

All departments execute teaching-learning activity through lectures, tutorials, practical sessions, online/offline resources. Faculty members encourage students to collect supplementary reading materials from the web for in-depth knowledge. 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 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. On-line lectures, on-line discussions on practical sessions, and on-line guest lectures/seminars were arranged during the lock-down period.

On-line classroom teaching is supplemented by regular tests, tutorials, group discussions, projects and seminars. 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.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

17

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

20

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

13

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

241

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Midterm and End term internal examinations are conducted at the Institute level. Due to pandemic situation, all departments conducted internal examination by online mode. Use of Google classroom and Whatsapp platforms was made for assignment completion and submission by students. Continuous evaluation of student performance was done by Moodle cloud.Weightage wasgiven for attendance in theory and practical sessions (online), participation and attendance in seminar presentations (online), internal tests, tutorials, MCQ tests. Internal tests are conducted after completion of each unit of the papers. The faculty member give assignments for the students during or after completion of a topic or unit. The performance of students in the tests, assignments and seminars is discussed with the students and improvements are suggested. Students approach the faculty members for any discrepency in the evaluation and the teachers respond to their queries/grievances promptly.

File Description	Documents
Any additional information	View File
Link for additional information	NIL

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

All queries and grievances concerned with the internal examination are addressed by the heads of the respective departments and faculty members who teach the particular subject. If there is any discrepency in the evaluation and marking, the concerned examiner/teacher immediately either make corrections in the marking or brings the mistakes to the notice of concerned student and advise the students for improvement/s. The teachers also guide the students about proper way of answering the questions. The actions are takes immediately as and when the students raise such queries.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated

and displayed on website and communicated to teachers and students.

Faculty members inform students about the syllabus of the respective PG Program at the begining of the semester. The programme and course outcomes are also discussed with the students. In addition theprogramme and course outcome of all the PG courses are displayed on the website of the Institute. The link for the same is given below:

http://www.inosca.org/iqac/course-outcome-all-courses.pdf

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional information	[http://www.inosca.org/iqac/course-outcome-all-courses.pdf](#)
Upload COs for all Programmes (exemplars from Glossary)	[View File](#)

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Students are evaluated continuously by way of giving them assignments and co-curricular activities. Midterm and End term internal examinations are conducted at the Institute level. 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 and practical sessions (online), participation and attendance in seminar presentations (online), 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. Likewise, Biophysics, Botany and Geology department scheduled internal tests via Google Classroom.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional information	[Nil](#)

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

101

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://drive.google.com/file/d/1TP5qJaNitDOAIPZXdooK0BZ3qW8nRqLW/view?usp=sharing

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

21.98970/-

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

9

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

The Institute has attracted funding from DST-FIST, DPDC and RUSA for development of research infrastructure. Faculty members strive to get funding from government agencies. Instrumental facilities procured from these funds are used by faculty members and students for research. Results emanating from the research work are published in peer-reviewed UGC-approved journals. Two patents are granted to a faculty member for innovation in the field of bionanotechnology. Since the patented work has good application potential, it is likely to be licensed/sold for industrial application/s. The faculty members mentor the PG students to apply for Summer Research Fellowship under National Academies of Science. Professionals and industry experts visit the institute and guide the students regarding career avenues, innovations and developments in the scientific field. All the Departments organize

unique activities under the respective students' clubs in order to promote experiencial learning that leads to innovative thinking.Department of Microbiology organizes National Level MicrobioCanvas competition and an Innovative Scientific Theme Presentation Competition to boost the innovativeness of students. The department also organizes Intercollegiate Research Paper Presentation Competition and Microbiolympiad Cpmpetition. Visits of students are arranged to the other departments in order to learn about the laboratory facilitties and how they can be used for their research projects. This helps in boosting their innovativeness. Department of Biotechnologyorganizes the Biotechnology Day speech competition, poster competition and debate competition.Department of Botany awards the Prin. Nanir Award to the Department Topper under the aegis of the alumni association. Faculty members also motivate and guide students for the Avishkar Research Competition. The students have received awards at various levels in these competitions for their innovative research presentations and models. The students are also encouraged to participate in co- and extra-curricular activities and sports, cultural activities, etc. in order to maintain a healthy atmosphere in the institute. Excursions, field visits, industry visits and reserach projects are regularly carried out to broaden the vision of the students and provide supplementary knowledge to students beyond the books.

The faculty as well as students present their reserach highlights in conferences, workshops and other suitable platforms for dissemination of knowledge to the scientific community. The faculty members share their knowledge and expertise through cunsultancy arrangements. The Institute also develops collaborative linkages with industry and academia through MoUs for exchange of knowledge.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

6

File Description	Documents
Report of the event	View File
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

4

File Description	Documents
URL to the research page on HEI website	https://www.inosca.org/programs.htm
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

38

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers

in national/ international conference proceedings year wise during year

17

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The Institute believes that students must be sensitized for social and ethical issues in order to make them responsible citizens. Out of the total number of students, 50% students are engaged in the extension activities under NSS, while 100% students are engaged under the institute's social initiatives. Students are trained to carry out water conservation activities and environment protection. During the year, tree plantation activity was carried out under collaborative efforts with Eco-Batalion, Aurangabad and the affiliating University. In this program, 25 students participated in spite of the COVID-19 situation by following all the safety norms. A blood donation campaignwas also organized for the benefit of patients who may be needing the blood. The International Women's Day was celebrated to sensitize the students for gender equity and the respect for women.

File Description	Documents
Paste link for additional information	https://drive.google.com/file/d/10Vk4zLu87 TADYZrj_NrkGF_6iAnFodIS/view?usp=sharing
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

0

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

1

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

2

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

0

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

0

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

This Institute has 25 acres own land with three separate buildings (for PG teaching & Research), one administrative building and one Central Library building. The PG teaching and Research buildings

house five departments, viz. Biophysics, Biotechnology, Botany, Geology and Microbiology. Each PG teaching and research Department has separate classrooms for M.Sc. Part1 and Part 2 teaching and are equipped with LMS facility. Each Department has separate laboratories for PG and research. The Departments have instrumentation laboratories, computer rooms, and departmental libraries.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

The Institute has a large playground for outdoor games and one indoor stadium-cum-auditorium for indoor games and cultural activities. The Institute provides all sports and fitness equipment to the students. The yoga camps and related activities are organized in the auditorium.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

13

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

100.81

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library is partially automated using SOUL ILMS software version 2.0.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	E. None of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals

during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

0

File Description	Documents
Any additional information	View File
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

21

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

The institute has 10MBPS internet connection. The entire institute is connected by the LAN. Moreover, each department is WiFi enabled. Under DST-FIST biotechnology department has a dedicated internet surfing center, wherein, all the students have free access to the internet. The LAN connection is available in each room, lecture hall and laboratory of each department and library.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

91

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution	**D. 10 - 5MBPS**

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

00

File Description	Documents
Upload any additional information	View File
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

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.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

134

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

0

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	Nil
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

35

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

35

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student

A. All of the above

grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

35

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

1

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	View File
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

0

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

0

File Description	Documents
e-copies of award letters and certificates	**View File**
Any additional information	**View File**
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	**View File**

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

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. Students are assigned certain responsibilities for the managment of resources in the departments and laboratories in particular. Each Department of the Institute has formed student clubs to offer a platform to the students to organize extra-curricular activities. Students actively participate by way of overall organization of the events, resource management, administration and execution of the activities. However, due to the pandemic, these activities could not be performed during the year.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	**View File**

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

0

File Description	Documents
Report of the event	View File
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

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

Lecture series, interaction meetings and campus interviews were organized under this banner.

File Description	Documents
Paste link for additional information	[Nil](#)
Upload any additional information	[View File](#)

5.4.2 - Alumni contribution during the year (INR in Lakhs)	**E. <1Lakhs**

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

The vision of the institute is "developing an institution as world class science institution pursuing for academic and scientific excellence catering to the needs of global community, striving for its harmonious development by inculcating lifelong learning skills to serve for the socio-economic development having concern for ecology and social harmony".

1. The faculty members of the institute strive to imbibe scientific temperament, scientific skills,moral and ethical values and multifaceted proactive personality by providing quality education through experiential learning.

2. The institute admits students for PG courses following the norms of the government in order to ensure that the educationally underprivelaged and meritorious students get the opportunity of higher education.

3. The Institute take efforsts to groom students in multidirections with innnovative approaches to suit local, regional, national needs and needs that will arise due to globalization.

4. The Institute provides skill based training to the students through organization of guest lectures, workshops and interactive session with professionals to cater the needs of the industries.

5. The Institute strives to develop and strengthen Industry-Institute participation and academic linkages directly in teaching learning processes through MoUs and other collaborative initiatives.

6. The faculty members guide the students to prepare for and explore placement opportunities in academics and industry through the training and placement cell as well as personal counseling.

7. The alumni of the Institute frequently visit the Institute and interact with the students to appraise them about the recent developments and needs/ expectations of the employers and motivate the students for career planning.

8. The students are encouraged to participate in seminars, conferences, and various competitions in order to develop scientific attitude.

9. The students are guided for competititve examination preparation by the faculty members.

File Description	Documents
Paste link for additional information	https://docs.google.com/document/d/1dHjOvpjeV33y5L4Heg74wwk8i7mMjrql/edit?usp=sharing&ouid=113541184988888041080&rtpof=true&sd=true
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

Department of Higher Education, Government of Maharashtra, Mumbai and Directorate of Higher Education, Pune are the managing authorities.

Administration of the Institute is managed as per theGovernment's hierarchical management pattern. The Department of Higher

Education, Government of Maharashtra controls the overall administration though Director, Higher Education at the state level. At local level, Director of the Institute who reports to Director, Higher Education, controls the administration and local management through academic and administrative decentralization of routine activities with the help of the Heads of each academic departmentof the Institute. In turn, the Heads of various departments allocate the responsibilities and work amongst their departmental staff. The Institute has constitutedand empowered IQAC for achieving excellence in the institutional processes. The office administration is geared through the Registrar to help general administration ranging from admission, scholarships, purchases, estate management, infrastructure maintenance, etc. Various Committees are formed that help in the participative management and for organizing academic, co-curricular, extracurricular, culturaland sports activities. Opinions and suggestions that are expressed in meetings are given due consideration and prompt decisions are taken by the Director for smooth functioning of the overall administration. Regular meetings of the Director with the Heads of the Departments and various committee members help in strengthening participatory management process. The documentation including meeting agenda, minutes and action taken reports are maintained by the respective committees. The Local Governing Body meetings, staff council 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.

The participative management in the Institute is evident from the delegation of work as under:

HOD: the responsibilities of department such as departmental administration, managing teaching- learning process, student related issues, discipline in department alongwith admission, examination, scholarship and other beneficial facility provision process related information , etc are entrusted to Heads of departments.

Purchase committeee: The purchase committee is responsible for all activitites concerned withpurchase ofinstruments, chemicalsand consumables required for laboratories and the departments. This committee includes theHeads of the Departments, faculty members and office staff including registrar and stores officer.

Library committee: takes care of purchase of online and offline issues of journals and books as per the requirement of every department The librarian, heads of the departments, some faculty members and office staff are the members of this committee.

Hostel committee: includes hostel rector, some faculty members including lady staff, and student representatives. It functions for taking decision on hostel related issues, admissions in the hostel, for purchase of items in the hostel and general discipline in the hostel premises.

Discipline committee: This committee includes the heads of all departments and monitors the overall atmosphere of the institute.

Admission committee: This committee includes all heads and some faculty members from each department and are involved in the admission related matters.

Other committees are also constituted for smooth functioning of the various activities and events in the institute, for example Women's Grievance Committee, Antiragging Committee, IQAC Committee, NSS Committee, Sports Committe, Gathering Committee, Din-Vishesh Committee, etc.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The Institution has a perspective plan. The aspects considered for inclusion are;

1. Quality enhancement and improved teaching-learning environment.

2. Enhancement of student support systems.

3. Improved student success rate.

4. To be more innovative, industry-relevant in curriculum design

and be more creative in academic delivery; with a strong emphasis on effective integration of technology in the teaching-learning process.

5. The teacher to be more of a facilitator and mentor than just a full time tutor.

6. To establish a research facilities and to nurture and develop research culture among the students and staff.

7. To emphasize on multi-dimensional evaluation of student learning and to ensurethat student learning outcomes match with their employers expectations.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	NIL
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Our Institute is governed by Higher Education Department of Maharashtra Govt., which has the responsibility to take care of all the colleges in the state of Maharashtra. However, the administration of Govt. Institute of Science, Aurarangabad is the responsibility of the Director who is directly accountable to the Department of Higher education. The Director is involved in the implementation of plans of the Institute and ensures that regular day to day operations are properly conducted, through feedback from co-ordinators, teaching and non teaching staff.

The Heads of Departments ensure that the plans communicated to them by the Director are implemented systematically.

Committees for cocurricular activities are formed at the beginning of the year and are assigned the tasks according to the institutional plans, for the curricular activities that enhance overall development of students.

Administrative Committees: [Examinations, Scholarships, Purchase, Discipline, Sports, Admissions, Library, etc.] are constituted for

the smooth conduct of all administrative activities according to requirements of academic bodies and government rules and are headed by senior faculty to guide the functioning.

File Description	Documents
Paste link for additional information	NIL
Link to Organogram of the institution webpage	https://drive.google.com/file/d/1VOU2WlqLmr8bme7M85J73mmUSsxVnn50/view?usp=sharing
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

Teaching staff:Co-operative society, housing loans, vehicle loans, computer loans, medical reimbursement facility.

Non-teaching staff:Co-operative society, housing loans, vehicle loans, computer loans, medical reimbursement facility.

Students:Scholarships, Book Bank facility.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

NIL

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

NIL

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	View File
Reports of Academic Staff College or similar centers	View File
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

09

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	View File
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Self appraisal report system is followed for teaching and nonteaching as per the service rules set by Govt. of Mahashtra and is helpful in offering promotional benefits to teaching and nonteaching staffs. The self appraisal report is collected in the

standard format as per the state govt. of Maharashtra at the end of every academic year.

Performance Appraisal for teaching faculty is based on the UGC regulation 2010 and amendments thereof, the institution monitors performance appraisal system through submitting of PBAS (Performance Based Self Appraisal System) of the teaching staff. The PBASreflects the detailsof refresher / orientation course/ workshops etc that the teacher attended during a particular period as it is deemed mandatory for promoting to thenext grade. The score of teaching performance is computed by reflecting the involvement of the teacher in curricular,co-curricular and extra-curricular activities. The evaluation of courses taught and average number of clock hours in a week are computed. Due consideration is given to the evaluation of innovation for special contribution made by the teacher. The involvement in thewelfare of students and community work is given due weightage for monitoring performance. During appraisal the teacher is given opportunity to pen down any special achievement made by him/her in the field of his subject, that can upgrade his/her overall performance.Teacher is given opportunity to note down the difficulties that he is facing while discharging his assignment. Additionaly, his/her valuable suggestions/measures are also sought for evaluating his observation for the betterment of Institution. The principal then grades the teachers on the overall report and recommends higher authorities for further necessary action. The PBAS reports are sought at every step of up gradation / next promotion.

Performance Appraisal for non teaching faculty -The appointment of staff is made through the Government of Maharashtra and after joiningthe department as per service rules Departmental Promotions arebeing conducted. The Director provides a report (Confidential Report forthe due period) wherein, the general performance, conduct,and character is being evaluated and appraised.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling

audit objections within a maximum of 200 words

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.

Financial audit of the accounts is an important process and is strictly followed by the Government Institute of Science, Aurangabad. The Institute undergoes an external audit conducted by Higher Education Department and AG office 2,Nagpur. They verify and confirm all finance related documents. Report of audit is submitted to Higher Education Department and AG office 2, Nagpur. All the financial matters in the Institute arestrictly monitored by the Director.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

NIL

File Description	Documents
Annual statements of accounts	View File
Any additional information	View File
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The institution is run by the state government. Hence, the funds to be utilized are primarily allotted through the Higher Education Department of Maharashtra. Funds to be allotted for the institution go through the exercise of forming annual budget as

per requirement. The same is being discussed with heads of each department and Registrar for allotment of funds. The allotments are made to the institution in financial year as per the availability of funds with the government. Optimum use of the funds is made as per the rules and regulations of the government. To ensure the optimum end use of these funds, theInstitute has constituted a purchase committee.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

In order to enhance the quality of the institution in all spheres, various quality assurance strategies initiated by The IQAC of the institution are as under: All the faculty members are encouraged and supported to participate in Orientation, Refresher courses, Workshops, Seminars and conferences related to the teacher-learning process and research. Teachers with Ph.D are encouraged and motivated to act as research guides for the research scholars. Teachers are supported and encouraged to participate in syllabus revision and examination evaluation processes. The IQAC through shcolarship committee also provides guidelines, internet access and verification processes for the students to get the post-Matric scholarships. The Institute also provides platform for the students to participate in Intra- College and Inter -College level debates, competitions, seminars, etc.

Regular meetings of IQAC are conducted under the chairmanship of Director with the fixed agenda and suggestions are taken from all the members of IQAC for improvement and better implementation of curriculum. All the teachers are encouraged to use audio-visual teaching aids, charts, models etc. for effective teaching-learning processes. Almost all the laboratories are provided with charts, models etc for effective teaching- learning process. LCD's are installed in all the classrooms of the institute with further upgradation of one classroom of each subject department with smart classroom faciltiy.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The institution reviews it's teaching learning process, structure and methodologies of operations and learning outcomes at periodic intervals. Some of activites of IQAC in this regard are:
1.Students feedback on faculty, teaching learning process and evaluation: Students feedback significantly shows the actual quality of teaching learning process. The students feedback is conducted as per the following norms:

a. All the students are allowed to give feedback on faculty, teaching learning process and evaluation so that actual picture is ascertained. b. After evaluating the feedback from students, the teacher if evaluated with low performance is instructed accordingly.

c. The whole process is being operated through IQAC. 2. Academic monitoring: The Director conducts regular visit to the classes and ensuresthe regularity and punctuality of class work. 3. Remedial Classes: The teachers conduct remedial classes and revision for the students wherever needed. 4. Syllabus Monitoring: The Director (chairman IQAC) keeps vigil on the completion of syllabus and ascertains information regarding the quantum syllabus completed, so that the prescribedsyllabus is completed within stipulated time.

File Description	Documents
Paste link for additional information	https://drive.google.com/drive/folders/149VCxXxFUYY8t1wEe8pcIjw73neEY9Xd?usp=sharing
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); | D. Any 1 of the above

Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	

File Description	Documents
Paste web link of Annual reports of Institution	https://drive.google.com/file/d/1dohRs0_dF tWEdH2jpqTbeg9_K2OyGrCO/view?usp=sharing
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Institution shows gender sensitivity in providing facilities such as: 1.Safety and Security The Institute believes in gender equality and makes effort towards Gender sensitization. It believes that educated girls are an asset not only for the Institute and family but also for the whole society.The sensitivity towards the girl students at this institute is carried as follows: (a) Safety and security Women's development and grievancecell is led by a senior, confident and caring female teaching member,(b) At the end ofadmission process and before the examination, a counseling session is organized for the girl students by the Women's cell to create awareness of gender equity.It is a good and healthy sign of academic work place that so far, there has beenno complaint lodged by any girl student. 2. Counselling: The female teaching faculty in particular are advised to counsel girl students in class, library, common room (wherever it suits) to educate about sexual harassment either collectively or individually, as suits the situation. The teachers are further instructed to counsel in cordial and cooperative manner so that the senseof belongingness and care prevail among the student community. For personal hygiene awareness, female teachers or

invited counselers interact with the girl students A good result
of one to one talk, questioning, discussing comes to surface,
demystifying the doubts in mental horizon of girl students. There
is no report of ragging in the campus as it seems that the concept
of ragging is completely erased from the minds of students. 3.
Common Room: The institutehas a common room where first aid
facility is provided at hand. The institute provides basic medical
aid, necessary for girl students free of cost.

4. Security cameras are installed for safety and security of
everyone in and around the campus and also in the hostel.

File Description	Documents
Annual gender sensitization action plan	https://drive.google.com/file/d/1j7k8LImGE MZCOvxvyxLajQHvrdr1oJ54/view?usp=sharing
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://drive.google.com/file/d/1Y9oAP5Efj nWVl5WqGvWVGo6LVzNrMry2/view?usp=sharing

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	C. Any 2 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of
degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste
management Biomedical waste management E-waste management Waste recycling system
Hazardous chemicals and radioactive waste management

The environment of the Institute is eco-friendly. The institute
has taken conscious efforts to enhance and nurture the eco-
friendly environment and always strives for sustainable
environment in the campus.

The Institute has taken all initiatives in line with theSwachha Bharat Abhiyan to sensitize its students and staff through different activities e.g. seminar, webinar, NSS cell etc.

The Institute has proper waste disposal mechanism. The solid waste is segregated into organic and is used to prepare compost for in-house consumption and non-degradable waste is collected by the Muncipal corporation of Aurangabad city. Most of the waste collected is biodegradable. The biodegradable portion is dumped in pits for decomposition over time andto be used as a source of biofertilizer. During the autumn season a large quantity of fallen dry leaves are collected and dumped to decompose for manure. Liquid waste: All the liquid waste from washroom, bathroom is collected into soakage pits through systematic drainage. Zero percent leakage of waste water is ensured.

No Biomedical waste is generated, if generated it is at minimal level and is disposed off as per thenorms set by the government.

E- Waste management- Electronic instruments and computers are used with great care in order to prevent break down of the instruments. This minimizes the generation of e-waste. Instruments beyond repairs are being processed for write-off procedures as per the Government norms that was used for recycling by the vendors.

Each department ensures proper disposal of potentially hazardous material/waste generated in the laboratories.

Gamma radiation facility is available at the Instiute. However, it is ensured thatno radioactive waste is generated. The radioactivity source is housed in a special facility/chamber as per the norms set by BARC, Mumbai.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting	B. Any 3 of the above

Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping	B. Any 3 of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	D. Any 1 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	D. Any 1 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	View File
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socio economic and other diversities. Different sports and cultural activities organized in the institute to promote harmony towards each other. Commemorative days like Sanvidhan din,

shahid din, Women's day, Yoga day and also the birth anniversariries of great social reformers, freedom fighters and leaders are celebrated in the institute to develop these values among young generation and also to promote tolerance and hormaony. Institute has code of ethics for students and a separate code of ethics for teachers and other employees which has to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities. The NSS unit organizes blood donation camp to sensitize the students regarding human values and tolerance towards religion, culture and other social diversities.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Ekta divas, Sadbhavana divas, Constitution day, paying respects to social reformers, prominent personalities on their birth/death anniversaries, awareness on electoral rights and responsibilities of the citizens, awareness on cleaniness, environment and hygiene (Swachha Bharat Mission), anti-tobacco campaign,

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://docs.google.com/document/d/1maqbBgubr3hIhh5jy7a1whzG7J1sK9v3/edit?usp=sharing&ouid=113541184988888041080&rtpof=true&sd=true
Any other relevant information	NIL

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes	A. All of the above

professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	[View File]()
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	[View File]()
Any other relevant information	[View File]()

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Institute celebrates or organizes national and international commemorative days , event and festivals like Independence day, constitution day, republic day, national science day, international women's day, Yoga day etc.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	[View File]()
Geo tagged photographs of some of the events	[View File]()
Any other relevant information	[View File]()

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practice

1. Title of the Practice Experiential Training and Mentoring for

overall development of the students.

2. Goal

The subjects taught in the Institute, viz. Life/Bio-sciences and Earth science (Geology) are highly interdisciplinary in nature. It is necessary to nurture the students in these interdisciplinary areas to broaden the scope of their knowledge and to develop professional approach. First and foremost, the Institute aims to introduce to the students, the knowledge resources available in the Central Library that span across various disciplines and types of resources. In order to make the students understand the interdisciplinary nature of the programmes being taught, the Institute has the objective of organizing visits of the students to the various departments and laboratories in the Institute and encourages the students to interact with faculty of other departments. Moreover, the Institute also aims to provide opportunity for students to take up interdisciplinary research projects. In addition to their classroom and laboratory training in the concerned subjects, the students must be exposed to real world/on-site scenarios to develop integrative approach/strategy and imbibe application oriented approach. Hence, the major goal of the Institute is to encourage experiential training through arranging various activities, viz. summer projects, industrial trainings, independent handling of research projects, self-designed seminars, participation in National and International conferences, field visits, mine training, hospital demonstrations, industry/institute visits, etc. Moreover, considering the need to qualify various competitive examinations for future prospects, it is necessary to take up competitive exam training and skill development initiatives. Further, since all PG programs have laboratory component, the Institute also aims to inculcate analytical, interpretative ability, aptitude, and ability to design laboratory experiments and solve problems. Lastly, an important goal of the Institute is to bridge the gaps in practical and numerical skills and orient students for integrative approaches to understand concepts.

3. The Context

The students admitted in the Institute are mostly from economically and educationally under privileged Marathwada region. Although meritorious students seek admission to the programmes offered by the Institute, they are unaware of their in-built talent and skills. Due to the lack of academic exposure and career prospects, they cannot decide about their career goals and the

utility of the subject in which they are trained. Moreover, the students are reluctant to opting the academic career through National/Global level competitive examinations. The Institute has developed extensive pre-admission counseling mechanism to reduce/remove the fear and phobia about higher studies and assist in choice of subject at M.Sc. level. Mere classroom teaching does not effectively eliminate the senile attitude towards their career honing. Therefore the Institute has seriously addressed this problem by designing multi-directional approach that caters self-learning; developing interest, using interdisciplinary, integrative and object-oriented strategy in learning; broadening of knowledge grasp; analyzing situations and inculcating problem solving/solution finding attitude.

4. The Practice

- At the beginning of every academic year, a visit to the central library is arranged under the aegis of the IQAC for M.Sc. Part I students. Here, students are exposed to the knowledge resources available in the Central Library, i.e. reference books, text books, collection of rare books and volumes, abstracts, reviews, science magazines, journals and periodicals, etc.
- Students are encouraged to visit other departments and interact with faculty of the various departments in order to gain knowledge from various disciplines/subjects to get better insights of their own subject. Department of Microbiology organized visits of the M.Sc. I students to the other departments and facilties within the Institute with the aim of providing them additional knowledge about the laboratory facilities and expertise of other departments.
- Interdisciplinary research projects provide opportunity to the students to broaden the scope of their research and utilize the expertise and infrastructure available in other departments for realizing the objectives of the projects.
- Students are encouraged to put forth questions on a topic in the class and then find out the answers on their own prior to start of teaching of the topic. The adopted method of cross evaluation of internal exam answer papers by student peers encourage setting up of appropriate high rubric level ultimately conveying students the ideal way of answering papers. This has resulted in students becoming very honest in evaluating themselves.
- Explaining concepts orally to audience facilitates a deeper understanding of the subject. Knowledge dissemination always catalyzes the knowledge grasp. Keeping this in mind, the

Institute motivates the students to design and deliver information/concept-based seminars during their curriculum. Students are given the flexibility to deliver seminars based on topics from within the prescribed syllabus, allied areas of prescribed syllabus, or research papers. Students are encouraged to present research papers published in journals followed by discussion on the paper. Faculty members encourage students to understand research planning, design and interpretation and to find out what more could be done to enhance outcome of the research. The display of synopsis, presentation skeleton, overall organization of the seminar events, evaluative feedback/interactive discussion is completely managed by the students which self-mentors their leadership qualities. Faculty members guide the students for improvisations.

- The institute organizes interdepartmental lectures of Faculty members on topics of their expertise. This increases collaborative teaching in the Institute and also offers in-depth knowledge to the students on particular topics. Faculty members organize lectures of eminent scientists, experts, professionals and alumni to provide students with a glimpse of current trends in scientific research. Heads of the Departments are encouraged to collaborate with research and Academic Institutes through linkages and MoUs.

- In order to motivate students and appreciate them for their performance, Department of Botany confers a gold medal to the first rank holder in M.Sc. (Botany) under the aegis of the alumni awarded Prin. S. P. Nanir.

- Several faculty members of Institute have contributed in Pre-Ph.D. course organized by affiliating University.

- In order to boost the competitiveness amongst students, a National Level Microbiological contest, MicrobioCanvas, MicrobioTalk, MicrobioSlate and Microbiolympiad Competitions were organized by Department of Microbiology with a huge participation ofstudents from many states of India. Winners were awarded prize money, certificate of excellence, medal of honour and trophy.

- Students are oriented for developing problem-solving abilities by providing them an opportunity to design the laboratory practical, keeping in mind the various possible outcomes, interpretations and fulfillment of the goals.

- In order to promote learning through observations, conceptualization and concept delivery and collaborative thinking, faculty of Biotechnology Department adopted newer innovative models of teaching, viz. 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).

- Real life/on-site experiences shared by the invited experts, faculties, scientists, entrepreneurs, industry personnel and our alumni with our students culminate in imbibing ethical values and personality traits viz. pride towards the Institute, down-to-earth analytical approach, methodologically buffered strategy, descriptive & illustrative approach.

- Exam skill and experience sharing by alumni who have successfully qualified the competitive examinations developed a positive attitude amongst the students. "Walk-the-talk" organized by the Biotechnology Department is one such student-centric activity aimed at enhancing the interaction between the current students with the alumni. Students have since then opted enthusiastically to appear in the NET/SET/GATE and other competitive examinations. The faculty members have provided in-house guidance to the students for competitive examinations.

5. Evidence of Success

- As a result of the devotion and sincere efforts of faculty members towards teaching learning-research, the Institute attracts meritorious students to take admission in the various PG programmes of the Institute.

- Seminars presentations have enriched the qualities within the students, viz. gathering the information, designing the talk/presentation, preparing the display slides using computers, co-assisting the presentations with animations, simulating examples, boldness, confidence, clarity of thoughts, integrating information and logic of bridging the concepts, communication skills, analyzing the questions raised and giving appropriate answers, effective use of audio-visual devices and white-board. As a result students could confidently present papers in conferences and interact with scientific community.

- Inter-department interaction of students with faculty members enhanced collaborative teaching with in depth knowledge to the students on particular topic/s.

- Students benefitted from academic and professional linkages with other organizations in the form of trainings, student visits, guest lectures, etc. Such activities impart additional knowledge about the laboratory facilities and expertise of other departments. Majority of students and

teachers develop interdepartmental link to complete their dissertation work.

- Active participation of students in learning was a major challenge amid pandemic scenario. This confront was overcomed by adapting innovative teaching models viz. cross over teaching, flipped classroom and through online discussions and network teamwork.

- Institute has successfully organized National Level Microbiological contest, MicrobioCanvas, MicrobioSlate and Microbiolympiad Competitions by networking 110 colleges all over the nation through online mode. The winners of respective activities were broadcasted in online "Prize Announcement Ceremony" and the winner's cash prizes, certificates, medals, trophies and subscriptions were sent on their postal address. We experienced that these events had a catalyzing impact on students who get enthusiasm and inspiration even during Covid19 pandemic.

- The knowledge acquired through the online demonstrations and subject related digital projects and online research article reviewing were successfully amalgamated with regular online theory lectures. Students were provided with various opportunities to interact with eminent scientists from National and international institutes and industries. These interactions contributed to nourish their personality and develop a scientific temper.

- Moral boosting online lectures by alumni/invited experts sharing real life/on-job experiences has thoroughly revolutionized the students' mind with strong will to undertake/handle tough challenging situations.

- The in-house coaching for competitive examinations has elevated and strengthened the confidence in successful tackling of the National level competitive examinations. "Walk-the-talk", organized by Biotechnology Department, for enhancing the interaction between the current students and alumni resulted in students opting enthusiastically to appear in the NET/SET/GATE and other competitive examinations. In-house guidance for competitive examination preparations has elevated and strengthened the confidence in successful tackling of the examinations.

6. Problems Encountered and Resources Required

- To improve the student's performance appropriate mentoring system was adopted by each department by considering the difficulties of online learning. Each faculty offered personal, social, and technical counseling by considering

> the pandemic situation.
- Institute has also taken efforts to develop soft skills required for their professional career. The faculty members devoted extra time in building up the communication skills.
- Institute gets success in maintaining the congenial teacher-student relationship.
- Students are made aware about various fellowships and scholarships offered by government and other organizations.

7. Notes (Optional) Nil

8. Contact Details Name of the Principal:

Dr. Rajendra A. Satpute

Name of the Institution:

Government Institute of Science

City: Aurangabad Pin Code: 431004

Accredited Status: B (2016)

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Website: www.inosca.org

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Best Practice 2

1. Title of the Practice Nurturing value-based education, social responsibilities and good citizenry

2. Goal

With an aim of carving value based education and social awareness amongst the students and facility extension and information dissemination to the community, the Institute has launched various programs, viz. women empowerment program; special day programs; blood donation camps; awareness and conservation programs for clean and green environment inclusive water conservation and ecofriendly aspects- tree plantation, check dam construction,

solid waste treatment and nutrient recycling; inculcation of value based education, socio-sensitivity, and facility extension services like soil analysis, ground water exploration and testing, gamma irradiation, providing microbial cultures as well as popularization of science; voter awareness campaigns, etc.

3. The Context

The Institute being a Post Graduate and Research Organization caters the academic needs of the region. In addition to academics, the societal components also expect creation of sensible human resource with high human values and sensitivity towards social climate as well as science-based extension services. In order to bridge the gap between academic training and the societal expectations, the Institute has structured multi-faceted programs that cater socio-sensitivity, environmental awareness and ethical values. In addition, the Institute takes the responsibility to extend the available facilities and expertise to community welfare and nurture scientific temper amongst the community through science popularization programs.

4. The Practice

- The number of value-added courses under "Service Course" provided opportunity to the students to opt for subjects that would help in their own development. Students opted for Wild life and Nature Interpretation with the view of getting a better view of nature, wild life, biodiversity, protection of the nature and natural resources and the need to conservethe green areas of the Institute campus and alsoto preserve and protect the large number of bird and animal species.
- Special sessions on soft-skills are organized under the "Placement Cell" to boost the student potential and allow them to understand the importance of effective communication in the "Job Scenario". Additionally, participation of students in seminar presentations, poster presentations and paper presentations and various co- and extracurricular activities also give necessary impetus for their all-round development.
- The campus waste is converted into Organic Manure through composting and vermiculture and is used for gardening and in-campus plantation.
- The Institute has conducted numerous community programs within and out of Aurangabad city to create awareness about Solid Waste Disposal, environment protection and health

awareness.

- Research projects are undertaken with the view towards remedial treatment of toxic and hazardous industrial wastes using microbial and nanotechnology based methods.
- The Institute provides extension services to the community for routine analysis of water to ensure a healthy community and environment.
- Under the umbrella of the NSS, Institute carries out various environment related activities such as Tree Plantation within and out of the Institute campus, street plays, construction of check dam for water conservation, desilting to increase the water table, etc. The Institute has adopted several practices for energy conservation such as use of power saving devices, solar equipment, etc. The Institute organizes guest lectures and poster presentations to stress the important environmental issues and the need to conserve energy, biodiversity and the environment.
- NSS unit was encouraged to carry out unique activities for developing sensitivity towards the society, environment and the Nation and for upliftment of society through awareness programmes.Blood donation camp wasorganized for students and local residents. Awareness campaigns on vaccination, hazards of smoking and electoral rights in residential areas adjoining Institute campus and in adopted village were organized.
- The International Yog Day is celebrated by inviting Yog Trainers to organize special practical workshops on Yog for stress-free life.
- Enrichment of managerial qualities amongst women was the main aim in hosting a weeklong workshop on Women Empowerment under the aegis of UGC. In order to pay tributes to National personalities and inculcate the feeling of National Pride and social responsibility, special day programs are organized.
- The Institute extends some facilities and scientific expertise to community. These facilities include soil analysis, ground water exploration and testing, gamma irradiation and supply of microbial cultures to college teachers, researchers and industry.
- The Institute being scientific avenue, dissemination of scientific information to the masses is practiced through mass communication media (radio talks), newspaper articles and organizing National Science Day programs, Open Day and contribution of faculties as resource persons.
- The Institute actively participates in launching Voter Awareness Campaign at the time of general elections.

5. Evidence of Success

- Students got necessary motivation from the value-added courses and they performed well in the examinations since the selection of subjects was as per their choice.
- Programs under "Placement Cell" yielded success in terms of both, learning effective communication as well as a good number of on- and off-campus placements.
- The overall nature and environmental awareness and a strong ecofriendly attitude were imbibed amongst the students. Students could learn composting method and conservation practices for keeping the environment clean and green.
- The research papers published and presented in scientific congregations have provided additional information content in terms of environmental remediation. Students were equipped with the tools and techniques to develop sustainable and eco-friendly processes and products. The community was benefitted through the extension services.
- The awareness about health and precious lives was effectively conveyed through health awareness and blood donation camps. Blood donation camp resulted in successful collection of blood to be eventually used for benefit of those in need.
- Tree plantationcreated awareness about soil and water conservation both amongst the students.
- Women empowerment program, special day programs, and voters awareness campaign have conveyed the message of gender equality, support and respect for women, National pride and social rights and responsibility.
- Service course stressed the importance of Living World, variety of flora and fauna and interdependence of living species.
- The Institute has been profoundly contributingin popularization of science through various activities and expert lectures benefitting the schools, colleges and general public.

6. Problems Encountered and Resources Required

- The students and faculty members being engaged full-time in lectures, practical, projects and mentoring for research, the major limitation to the implementation of these extra-curricular activities is time availability.
- Lack of financial aid for village adoption and other community services was another major obstacle in implementation of these programs.

7. Notes (Optional) Nil

8. Contact Details Name of the Principal:

Dr. Rajendra A. Satpute

Name of the Institution:

Government Institute of Science

City: Aurangabad Pin Code: 431004

Accredited Status: B (2016)

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File Description	Documents
Best practices in the Institutional website	https://docs.google.com/document/d/1dKC8AnTya00ApzQSpq9NCscD5LZ8kzT5/edit?usp=sharing&ouid=113541184988888041080&rtpof=true&sd=true
Any other relevant information	NIL

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

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- **The priority and the thrust to establish institute of science is to cater the higher education needs of Marathwada, the educationally deprived region of Maharashtra state. To boost the higher education Govt. of Maharashtra has established post graduate institute in 1974, it is the**

only State Government administered PG Higher education institute in this region.

- The institute gives prime importance to its motto of making the students scientifically and ethically stronger to step up in various areas.
- The institution also adheres to the motto of government of Maharashtra, "Education to every individual at affordable fee structure".
- Institute stands out in its distinctive endeavour for blending teaching-learning with experiential mentoring and research in Botany, Biophysics, Biotechnology, Microbiology and Geology. Every department has ICT aided class rooms and are excellent centres of academic and research with advanced instrumentation facilities with open access to every student.
- All the departments established in this institute are pioneering postgraduate departments in the concerned subject and are recognized by the affiliating university for research. Biophysics is the only PG depts. in the Maharashtra state. The faculty members are recruited by state Government through MPSC.
- Institute nurture Student centric approach in the teaching-learning, organizing co-curricular and extracurricular activities. Institute strives for inculcating various national and global issues of gender sensitization and equity, women empowerment, constitution obligation rights, human values, citizens duties and responsibility
- Institute also offers 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.
- The Central library of the institute is unique in its own respect and it significantly adds pride to the institute. 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. It is registered with various E-subscriptions, including INFLIBNET for access to e-journals, Shodhganga, etc. and has N-LIST membership.
- The faculty members being state Government Gazetted Class1 officers shoulder various subject related, and administrative professional responsibilities in the State

and Central bodies.

- 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.

- 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.

- In addition to the sophisticated instruments, institute has unique collection of geological and botanical specimens, Biomedical instruments which are freely accessed by PG and research students enriching their practical aptitude.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

- Motivating the faculty members for preparation of on-line, video lectures on MOOC, LMS and other platforms in view of new trends in Higher Education

- Motivating the faculty members to attend online workshops, webinars and conferences for getting updated knowledge of concerned subjects and changing trends in education against the COVID-19 background/situation.

- Encouraging faculty members to organize webinars on current topics in respective fields of science during the National lockdown period.

- Organizing webinar/workshop on Intellectual Property Rights and Patenting.

- Organizing programmes on Gender Equity.

- Mentoring the PG students for submission of research proposals for Summer/winterResearch Fellowships.

- Encouraging faculty members to participate in the framing and revision of syllabus as a part of various committees in the University.

- Encouraging the faculty members to participate in Faculty Development Programmes for enhancing the knowledge horizons and career progression.

- Encouraging staff members to submit collaborative research projects to various funding agencies, pursue research work, and publish papers in peer reviewed, refereed and UGC-listed, scopus-indexed and high impact factor journals.
- Encouraging faculty members to participate in and organize conferences.
- Advising all Departments to submit uniform time-table of lectures considering slot for service course lectures and to take measures to ensure 100% student attendance for theory and practical sessions.
- Urging faculty members to organize workshops on Preparation for Competitive Exams and encouraging the Placement cell to organize on-campus and off-campus placement activities and career guidance programmes.
- Encouraging NSS unit to carry out unique activities for developing sensitivity in the students towards the society, environment and the Nation and for upliftment of society through various awareness programmes.
- Motivating the students to participate in 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.
- Motivating faculty members to arrange programmes aimed at nurturing and enhancing the scientific communication skills of the students.
- Collection of feedback from stake holders for improving the teaching-learning process.
- Mobilizing students' initiatives to organize science activities through student clubs in the various departments.
- Encouraging student participate in cultural activities and sports organized by the Institute and other institutes.